



**College of
Graduate Studies**

UNIVERSITY OF CENTRAL FLORIDA

Graduate Catalog 2020-2021

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grad_web@ucf.edu

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About UCF

Overview

The University of Central Florida has come a long way since its inception in 1963. It is now a thriving, multi-campus university, with more than 68,500 students and more than 200 graduate degree programs. In addition to its physical growth, UCF has become a prominent player in graduate education nationwide, offering innovative corporate partnerships, world-renowned faculty, and cutting-edge research. "About UCF" describes the University and its mission. In addition, this section describes the people and offices that make up UCF—including university, college, and school administration.

Mission Statement

The University of Central Florida is a public multi-campus, metropolitan research university that stands for opportunity. The university anchors the Central Florida city-state in meeting its economic, cultural, intellectual, environmental and societal needs by providing high-quality, broad-based education and experienced-based learning; pioneering scholarship and impactful research; enriched student development and leadership growth; and highly relevant continuing education and public service initiatives that address pressing local, state, national, and international issues in support of the global community.

UCF Story

Graduate Education that Creates Opportunities

The University of Central Florida is one of the largest pre-eminent research universities in the country. Located in Orlando, one of the most dynamic metropolitan areas in the United States, UCF benefits from a diverse faculty and staff who create a welcoming environment. UCF is a university that creates and provides opportunities for students to grow, learn and succeed.

As central Florida's higher-education partner, UCF plays a major role in the region's fast-paced growth through its community and corporate partnerships, its research programs, and the talents of its more than 300,000 alumni, over 69,500 students, and nearly 13,650 faculty and staff. As a metropolitan research university, UCF is committed to innovative community partnerships, world-class research with local impact, and the integration of technology and learning.

Centers of Excellence

UCF's colleges include Arts and Humanities, Sciences, Business Administration, Community Innovation and Education, Engineering and Computer Science, Graduate Studies, Health Professions and Sciences, Hospitality Management, Medicine, Nursing, and Optics and Photonics.

The university's internationally renowned colleges, centers and institutes include the College of Optics and Photonics/CREOL (Center for Research and Education in Optics and Lasers), Burnett School of Biomedical Sciences, the Rosen College of Hospitality Management, the Advanced Materials Processing and Analysis Center (AMPAC), the Biomolecular Science Center, the School of Modeling, Simulation and Training, Center for Research in Computer Vision, the Florida Solar Energy Center (FSEC), the NanoScience Technology Center, the National Center for Forensic

Science, the Florida Space Institute, National Center for Integrated Coastal Research, The Townes Laser Institute, and the Florida Photonics Center of Excellence. For additional information regarding these centers and institutes and other research programs, visit www.research.ucf.edu/centers.html.

Pride in Accomplishments

The reputation of any educational institution is best reflected in the accomplishments of its students, faculty, and alumni—and for a university that's now more than 50 years old, UCF has moved rapidly from promise to academic prominence.

Campus Accomplishments

- For the third year in a row, UCF has been recognized as one of the Most Innovative Schools by *U.S. News & World Report* (2020 Best Colleges).
- Twenty-seven UCF graduate programs were ranked in the top 100 in their respective fields by *U.S. News & World Report's Best Graduate Schools of 2021*. Among these are Homeland Security (2), Nonprofit Management (5), Optical - Physics (12), Student Counseling (13), Public Management (23), Criminal Justice (26), Public Affairs (38), Industrial Engineering (41), Healthcare Management (46), Aerospace Engineering (53), Materials Engineering (54), Speech-Language Pathology (55), Physical Therapy (57), Electrical Engineering (58), and Nursing (61), to name a few.
- UCF ranks 29th among public U.S. universities and 65th in the world for public and private universities in securing patents.
- UCF Downtown, UCF Lake Nona Medical Center and UCF Lake Nona Cancer Center provided new spaces for students to learn while gaining real-world experience.
- UCF is 1st in Florida and 3rd nationally for coveted National Science Foundation CAREER Grants.
- UCF's Florida Interactive Entertainment Academy was named the No. 1 graduate-level video game design school in North America by The Princeton Review and *PC Gamer* magazine.
- The Rosen College of Hospitality Management is ranked No. 4 in the world among hospitality schools by *CEOWorld* magazine.

Notable Research

- UCF researchers have developed a way to control the speed of light. Not only can they speed up a pulse of light and slow it down, but they can also make it travel backward.
- A \$20 million NASA grant was awarded to continue work in the area of asteroids at Arecibo Observatory in Puerto Rico. UCF took over the operation in 2018 with a \$20 million NSF grant.
- UCF's RESTORES Clinic has become known nationally for its innovative PTSD treatment for veterans, active-duty military members, first responders, and other victims of trauma such as sexual assault and mass shootings.
- A team of University of Central Florida researchers by using the principle of supersymmetry, have developed the first supersymmetric laser array. Their findings could have applications in surgery, drilling, and 3D laser mapping.
- Sudipta Seal, an engineering professor and chair of UCF's Department of Materials Science and Engineering, received the prestigious Materials Research Society Fellow award and the Lee Hsun Lecture Award from the Chinese Academy of Sciences' Institute of Metal Research for his contributions to materials science research.

Degrees of Distinction

With 1,949 full-time faculty, the university offers 99 bachelor's degrees, 89 master's and MFA degrees, three specialist degrees, and 35 doctoral degrees as well as 99 graduate certificate programs and the Doctor of Medicine program.

The list of prominent alumni gets longer with each graduation ceremony. A sampler of notable alumni includes Jim Atchison, President and CEO, SeaWorld Parks and Entertainment; Michelle Akers, World Cup Soccer Athlete, Kevin Beary, former Sheriff, Orange County, Florida; Juanita Black, president, Mental Health Association of Central Florida; Fernando Calderiro, former NASA astronaut; Phil Dalhausser, Olympic Gold Medalist, volleyball; Ericka Dunlap, Miss America 2004; Alan Eustance, Google Senior Vice President of Engineering and Knowledge; Shaqueem Griffin, Linebacker, Seattle Seahawks; Shaquill Griffin, Cornerback, Seattle Seahawks; Cheryl Hines, actress; R. Glenn Hubbard, Dean, Columbia University Graduate School of Business; George Kalogridis, president, Walt Disney World Resort; Mark Miller, country music singer/songwriter, Sawyer Brown band; William W. Parsons, Jr., former Director, NASA's John C. Stennis Space Center; Angel Ruiz, president and CEO, Ericsson North America; Nicole Stott, space shuttle astronaut; Daniel Tosh, standup comedian/television host, Blake Bortles, NFL Quarterback, Robert Damron, American Professional Golfer and Diplo, American DJ and record producer.

International Impact

UCF's growing cadre of international students adds both diversity and global connections to the Central Florida community. More than 130 countries—most notably China, India, Brazil, Vietnam, Bangladesh, Venezuela, and Colombia—are represented in the student body, and faculty research is taking place in areas ranging from South America to the Arctic polar ice cap.

UCF has 200+ study and research agreements with institutions in over 60 countries—providing learning and research opportunities for students and faculty in countries ranging from the Udmurt Republic to South Africa. The university's Eastern Europe Linkage Institute alone maintains educational and research partnerships with 20 institutions in nine countries, including Russia, Ukraine, Slovakia, the Czech Republic, Bulgaria, Lithuania, Romania, Poland, and the United States. The student experience abroad does not stop in the classroom with opportunities available for students to travel internationally.

Strength in Diversity and Inclusiveness

Increasing diversity and inclusiveness is one of the central goals of UCF. The university is particularly proud of an aggressive minority recruitment plan, and minorities now account for OVER 30 percent of the faculty.

The student community includes Hispanic/Latino (18%), African-American (11%), and Asian/Pacific Islander (5%) students and represents 64 of Florida's 67 counties, all 50 states, and 145 countries.

Partnerships and Community Service

One of UCF's main objectives is to be America's partnership university. Hundreds of joint projects are in place with community organizations and government agencies at all levels and corporations—ranging from collaborative research in nanoscience to neighborhood nursing clinics.

Two major partnerships target the region's most prominent business sectors. The Rosen College of Hospitality Management will increase the university's already significant commitment to the area's tourism and hospitality sector. High-tech interests are being well-served by the Florida High Tech Corridor partnership—an initiative of UCF, University of South Florida, and the University of Florida drive progress in the region.

Orlando and Beyond

In addition to its 1,415-acre main campus in Orlando, UCF has area campuses in Lake Nona, Southwest Orlando, and Downtown Orlando; centers in Altamonte Springs, Cocoa, Daytona Beach, Leesburg, Ocala, Palm Bay, Sanford/Lake Mary, South Lake, Valencia East, Valencia Osceola and Valencia West giving students throughout central Florida the chance to take classes, pursue degrees, and interact with faculty and staff.

Pardon Our Dust

- The Downtown Orlando Campus opened in Fall 2019.
- Student Union Expansions will be completed by Fall 2021 with increase space and seating from 315 to 750.
- Phase 1A of the John C. Hitt Library opened in Spring 2020. Phase 1 consists of a stand-alone Automatic Retrieval Center (ARC) which can store up to 750,000 volumes of library materials.
- The UCF Hotel on the main campus will include 179 rooms and suites, 10,000 square feet for conferences, meetings, and events; it is privately funded and almost completed.

Virtual Campus

UCF's virtual campus UCF Online is leading the way in the integration of technology, teaching, and learning. Forty-five graduate degrees and tracks and 34 certificate programs are available online, in addition to many individual graduate-level courses. Essential student services, such as parking, course registration, and textbook purchases are also available online.

For more information on UCF's online programs, visit www.ucf.edu/online.

UCF Athletics

UCF Knights cheer team win the 2020 Division 1A National Championship.

UCF student-athletes compiled a 3.2 GPA for the spring of 2020, continuing a streak of 25 consecutive semesters with a GPA of 3.0 or better.

UCF has an overall success rate of 94 percent - the highest among US public institutions and the highest in the state of Florida.

UCF's football team ranked ninth academically out of 78 bowl-bound teams.

Ranked at No. 24 for 2019, the Knights are the only football team out of the Sunshine State to have finished the year ranked in each of the last three seasons.

UCF women's volleyball repeats as 2019 AAC champs.

Central Florida—A great place to be

UCF is located 13 miles east of downtown Orlando, 45 miles from the Atlantic Ocean and Cape Canaveral, and 100 miles from Tampa and the Gulf of Mexico. The area boasts world-class shopping and dining, amusement parks, lakes, golf courses, jogging and biking trails, and nature preserves.

UCF—A Time of Opportunity

The time is now for UCF—one of the fastest-growing, metropolitan research universities in the country and a catalyst for economic development in central Florida. Significant in size, excellent in academics, and prominent in accomplishments, the University of Central Florida is one of Florida's leading educational assets.

The University's culture of opportunity is driven by the diverse people it attracts, its Orlando location, its history of entrepreneurship, and its youth, relevance, and energy.

Facts

About the University

- **Status:** One of 12 of Florida's public universities
- **Location:** In metropolitan Orlando area, 13 miles east of downtown Orlando
- **Carnegie Classification:** Comprehensive Doctoral; Research Universities - Very High Research Activity
- **Number of Graduate Programs:** 35 Doctoral, 89 Master's, 99 Graduate Certificates, 3 Specialist Programs, and 1 Professional Program (Medicine)
- **Overall Student Enrollment in Fall 2019:** 69,525
- **Graduate Enrollment in Fall 2019:** 9,545, including 2,286 doctoral, 6,518 master's, 396 certificate, 48 specialist, and 297 nondegree-seeking students
- **Class Offerings:** Courses offered in Arts and Humanities, Business Administration, Communications, Community Innovation and Education, Engineering and Computer Science, Graduate Studies, Health Professions and Sciences, Hospitality Management, Medicine, Nursing, Optics and Photonics, and Sciences are offered at night, online and at UCF's regional campuses.

About UCF Graduate Students

- **Graduate Student Characteristics, Fall 2019**
 - Doctoral - 78 percent full-time students, 22 percent part-time students
 - Master's - 38 percent full-time students, 62 percent part-time students
 - Gender - 59 percent female, 41 percent male
 - Location - 76 percent in state, 24 percent out of state
- **Average Age of Graduate Students, Fall 2019:** 31 years old
- **Ethnicity of Graduate Student Population, Fall 2019**
 - White, Non-Hispanic - 53.1 percent
 - African American, Non-Hispanic - 11.4 percent
 - American Indian or Alaskan Native - Less than 1 percent
 - Asian - 12.1 percent
 - Hispanic/Latino - 18.7 percent
 - Native Hawaiian/Other Pacific Islander - Less than 1 percent
 - Multi-racial - 2.7 percent
 - Not specified - 1.7 percent

Financial Support for Graduate Students

- Assistantships - Each year over 1,500 graduate students are awarded graduate assistantships that provide financial support for their graduate education.
- Fellowships - Over 2 million dollars in support was awarded to doctoral and master's students.

- Tuition Remission - University fellows and graduate students appointed on full-time assistantships (20 hours per week) receive full resident (in-state) tuition remission. Students appointed on half-time assistantship appointments (10 hours per week) receive remission of one-half of the resident (in-state) tuition. All nonresident university fellow and graduate assistants with appointments totaling 20 hours per week are charged a "differential out-of-state fee" of \$0.00.
- Health Insurance - The College of Graduate Studies provides health insurance coverage for all university fellows and graduate assistants with appointments totaling 20 hours per week.

Research Activities 2020

Academic research fuels the innovation economy and UCF is an integral part of statewide efforts to attract, retain, and grow high technology companies in Florida. UCF's programs in engineering, optics, and photonics, and simulation and training, computer science and nanoscience are among the best in the nation. In 2020 UCF researchers received \$204.5 million in contracts and grants, the largest percentage of funds coming from the federal government, which has a vested interest in advancing knowledge and fueling America's innovation pipeline.

Research faculty are the strength behind the development of new technologies. UCF's incubation and entrepreneurship programs help turn those technologies into companies, which in turn help those companies put products on the market.

- Total Research Awards - \$204.5 million
- Total Federal Awards - \$110.7 million
- Total State Awards - \$47.3 million
- Total Industry Awards - \$46.4 million
- Patents - UCF holds more than 922 U.S. Patents

UCF Centers and Institutes Research

- Advanced Materials Processing and Analysis Center (AMPAC) - \$2.3 million
- Florida Solar Energy Center (FSEC) - \$3.0 million
- Nanoscience Technology Center - \$7.8 million
- Florida Space Institute - \$11.5 million
- Center for Research in Computer Vision - \$3.7 million
- Institute for Simulation and Training (IST) - \$13.4 million

College Research

- Arts and Humanities - \$1.2 million
- Business - \$215,739
- Community Innovation and Education - \$30.6 million
- Graduate Studies - \$813,864
- Engineering and Computer Science - \$43.4 million
- Health Professions and Sciences - \$4.9 million
- Hospitality Management - \$984,542
- Medicine - \$20.1 million
- Nursing - \$1.5 million
- Optics and Photonics (CREOL) - \$15.1 million
- Sciences - \$25.4 million

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College of Graduate Studies

- Overview
- Mission Statement
- College of Graduate Studies Leadership
- Graduate Council
- College Graduate Coordinators
- Graduate Program Directors
- Graduate Faculty and Graduate Faculty Scholars

Overview

The College of Graduate Studies provides leadership and vision for graduate education at the University of Central Florida. Program quality, graduate admissions, recruiting, enrollment management, student services, and records, financial support, policies, appeals, program development, and review, benchmarking, and completion of graduate degrees are important concerns of the College.

Working in conjunction with the Faculty Senate Committees and the college and graduate program coordinators, the College of Graduate Studies is responsible for developing university-wide graduate plans and policies, coordinating graduate activities, distributing tuition support and fellowships to the colleges, facilitating the adoption of new graduate programs, coordinating the recruitment of graduate applicants, and admitting graduate students to the university. Students apply to the university through the Office of Graduate Admissions. Admission decisions are made by the graduate program directors and the College of Graduate Studies.

The College of Graduate Studies houses several interdisciplinary graduate programs: Geographic Information Systems Graduate Certificate; Interdisciplinary Studies MA and MS; Modeling and Simulation PhD, MS and Graduate Certificate; and Nanotechnology MS.

Mission Statement

The UCF College of Graduate Studies provides leadership and services to create high-quality learning environments for graduate students.

About Our Mission

The UCF College of Graduate Studies is an advocate for graduate education, working to mobilize and manage the resources needed for enrollment and program growth. We track and analyze emerging trends and changes in graduate education, both nationally and with our peer institutions, and provide support and guidance for interdisciplinary and cooperative programs. We are mindful of the need to retain the academic values of the graduate programs while acting as a partner in the social and economic well-being of the community and state.

We collaborate with the faculty to develop policies and best practices that further the high academic standards and excellence of our graduate programs. We provide information and services that students need to enhance their experience with UCF and that faculty and staff need to effectively carry out their responsibilities to students. Cooperation with colleges, graduate programs, institutes and centers, administrative offices, and support services is emphasized to provide an excellent experience for our graduate students from inquiry to graduation.

Through its primary activities, programs, and services, the UCF College of Graduate Studies contributes to program development and growth, enrollment management and recruiting, enhanced infrastructure and technological support for our graduate students and programs, and quality student support services for a diverse and talented graduate student population.

College of Graduate Studies Leadership

Vice President for Research and Dean of the College of Graduate Studies	Elizabeth Klonoff
Acting Senior Associate Dean	Winston Schoenfeld
Associate Dean	Devon Jensen
Associate Dean	Barbara Fritzsche
Assistant Dean	Jennifer Parham

Graduate Council

The Graduate Council is a standing committee of the Faculty Senate and reports to the Senate on graduate policy and curriculum matters. The Graduate Council deals with policy issues and standards for the university. New graduate program requests, changes to existing graduate programs, additions, deletions and modifications to graduate courses, and new policies or changes to existing graduate policies are initiated and reviewed by the Graduate Council. New graduate degree programs require final approval by the Board of Trustees, and approval for doctoral programs is required from the Florida Board of Governors. The Graduate Council has four committees that examine and formulate policies and procedures, hear petitions for variances from a graduate program or university requirements, review new graduate program requests, review changes to existing graduate programs, additions, deletions and modifications to graduate courses and provide input on graduate program reviews, among other matters. For specific duties and membership requirements of the committees and the Council please see Section VII of the Faculty Constitution at <http://www.facultysenate.ucf.edu/constitution/index.asp>.

College Graduate Coordinators

College graduate coordinators are appointed by the respective college deans (or Directors of Schools with graduate academic programs) to work with the College of Graduate Studies. The primary responsibilities of the college graduate coordinators are to identify academic opportunities for graduate education in their colleges, plan for enrollment growth and the use of resources in the graduate programs, communicate the college vision of graduate education to faculty, staff, students, and the university, coordinate and represent college graduate concerns to others, conduct studies that ensure program quality and standards in the college and report this information to the university, assist with program reviews, and prepare an annual report to the College of Graduate Studies on college graduate activities.

- College of Arts and Humanities—Lynn Hepner
- College of Business Administration—Dr. Sevil Sonmez
- College of Community Innovation and Education—Dr. Glenn Lambie
- College of Engineering and Computer Science—Dr. Ali Gordon
- College of Health Professions and Sciences—Dr. Linda Rosa-Lugo
- College of Medicine—Dr. Saleh Naser
- College of Nursing—Dr. Joellen Edwards
- Rosen College of Hospitality Management—Dr. Alan Fyall
- College of Optics and Photonics—Dr. David Hagan
- College of Sciences—Dr. Tosha Dupras
- School of Modeling, Simulation and Training—Dr. Charles Hughes

Graduate Program Directors

The graduate program directors are appointed by the respective department Chairs (or Directors of other units with graduate academic programs) to work with the college and university personnel on behalf of graduate education. Under the direction of the department chair, they are responsible for the graduate program's health and quality. They oversee the recruiting of graduate students and respond to inquiries; provide for student services such as mentoring, career development opportunities, and student orientations; plan for office space for graduate assistants; inform students and faculty of student completion rates; inform students and faculty of financial support available to graduate assistants; and ensure program standards in their department. Graduate program directors are the main contacts for each of the graduate programs.

Graduate Faculty and Graduate Faculty Scholars

University-Wide Qualifications for Participation in Graduate Education

Graduate education requires the participation of highly competent faculty who are willing to share their specialized skills and knowledge with graduate students. Graduate faculty teach graduate courses, serve as members of thesis and dissertation committees, and serve as faculty advisers for thesis and dissertation students and chairs of thesis and dissertation committees. The following guidelines outline the minimal credentials necessary for faculty to serve the many different roles they play in graduate education. Programs may set higher qualification standards or additional requirements. As the university is committed to encouraging, facilitating, and rewarding interdisciplinary, multi-disciplinary and cross-disciplinary educational and scholarly activities, the service of faculty and staff members in more than one department, school, center/institute, or college is encouraged as a way to further this objective.

Faculty engaged in graduate education must possess either a terminal academic degree in, or closely related to, the discipline in which they are teaching, or expertise in a field related to the topic of the thesis or dissertation if serving on a thesis or dissertation committee. Substitution for the terminal degree may be granted with documented relevant exceptional experience and scholarly or creative activity when recommended by the graduate program committee and approved by the department chair/unit director. No graduate student at UCF may teach UCF graduate courses as the instructor of record.

For the appointment of individuals in the process of obtaining a terminal degree, the College of Graduate Studies can certify that all requirements for a degree have been met.

Members of the Graduate Faculty cannot have personal or financial (including employment) arrangements that may pose a conflict of interest with a student on whose thesis or dissertation committee they serve.

This policy has five major sections:

- Section A defines the terms describing the roles played by faculty in graduate education.
- Section B establishes the role of the graduate program committees in the process of appointing Graduate Faculty and Graduate Faculty Scholars.
- Section C establishes the roles and qualifications for appointment as Graduate Faculty and Graduate Faculty Scholars.
- Section D establishes procedures for review, renewal, and termination of appointments to the Graduate Faculty.
- Section E establishes the responsibilities for the various members of the dissertation committees.

A.1: Faculty Roles in Graduate Education

Faculty involved in graduate education comprise members of the Graduate Faculty (Sections C.1-C.2) and Graduate Faculty Scholars (Section C.3). These faculty may be eligible to assume the following roles as part of their involvement in graduate education at UCF:

- Instructor of record for graduate-level courses (graduate teaching)
- Member of a thesis or dissertation committee
- Chair of a thesis or dissertation committee: In the vast majority of cases, the chair is the adviser of the scholarly activities of the student. A chair of a thesis or dissertation committee also oversees all of the

administrative functions of the committee. A Graduate Faculty Scholar is not eligible to serve as a chair of a thesis or dissertation committee.

- Co-chair of a thesis or dissertation committee: A co-chair is a member of a thesis or dissertation committee who shares with the chair in the scholarly advisory activities of the student. In cases in which a Graduate Faculty Scholar oversees the day-to-day scholarly activities of the student, the Graduate Faculty Scholar may be appointed as a co-chair of the thesis or dissertation committee.
- Vice-chair of a thesis or dissertation committee: A vice-chair serves as a voice of experience in thesis and dissertation committees. A vice-chair must be appointed to committees in which the chair has no prior experience serving on thesis or dissertation committees. To be appointed as a vice-chair, the committee member must have prior experience serving on at least one thesis or dissertation committee that has successfully graduated a student.

Descriptions of the responsibilities of members and chairs of dissertation committees are detailed in Section E.

B.1: Graduate Program Committees

Each graduate program will be administered by a graduate program committee consisting of faculty members who participate in the program. An active graduate program committee is required for each graduate program in order to provide program oversight and to ensure that the qualifications of contributing individuals are appropriate for participation in graduate education. Graduate program committee members are appointed in accordance with established department/school procedures and the qualifications established in this document.

B.2: Qualifications for Serving on Graduate Program Committees

Tenured, tenure-earning or ranked faculty who are members of the Graduate Faculty may serve on graduate program committees. The graduate program director will be the chair of the graduate program committee.

C.1: The Graduate Faculty

Ranked professors (tenure, tenure-earning, clinical, research), engineers, instructors, lecturers, librarians, scientists, and scholars are eligible for appointment to the Graduate Faculty. Appointment to the Graduate Faculty begins with a nomination by the graduate program committee that is relevant to the graduate education duties of the individual faculty member. The nomination must then be approved by the department chair/unit director for review and appointment by the Dean of the College of Graduate Studies. Qualified graduate faculty members may be eligible to serve in more than one graduate program. Graduate faculty members who are outside of a student's program are eligible to serve as external members of a thesis or dissertation advisory committee.

Special graduate faculty nominations may be made to the Graduate Council at the discretion of the Dean of the College of Graduate Studies.

All graduate faculty are eligible to teach graduate courses, serve as members of thesis and dissertation committees, and serve as chairs or co-chairs of master's thesis committees.

C.2: Eligibility Criteria for Service as Chairs of Thesis and Dissertation Committees

All chairs and co-chairs must be approved by the graduate program committee of the student's program. Graduate program committees may specify additional guidelines for service as a chair or co-chair of thesis or dissertation committees.

Scholarly currency requirement to serve as a chair of a dissertation committee: For graduate faculty members to serve as a chair or co-chair of a dissertation committee, they must demonstrate significant current involvement in scholarly research or creative productivity. Scholarship and creative activity are evidenced and recognized through publications, presentations, performances, exhibits, awards, and competitions. Other considerations include a continuing fulfillment of professional obligations through, for example, manuscript review, journal editorship, and national advisory and review panels. The criteria for scholarly currency are to be established by each graduate program and approved by the department chair/unit director. The criteria must be submitted to the Dean of the College of Graduate Studies prior to nominations for graduate faculty appointments and updated for the reappointment process.

Required thesis or dissertation committee experience: Graduate faculty who have not served as a member of a thesis or dissertation committee to completion may serve as the chair of a thesis or dissertation committee, but must have a vice-chair appointed to the committee who has previously served as a member of a thesis or dissertation committee to completion.

C.3: Graduate Faculty Scholars

Other qualified individuals may serve as graduate faculty scholars in graduate faculty roles confined to specific, well-defined graduate faculty assignments. Graduate faculty scholars play important roles in graduate education at UCF, but their status as graduate faculty scholars is distinct from that of members of the Graduate Faculty.

The appointment of graduate faculty scholars begins with a nomination by the graduate program committee that is relevant to the graduate education duties of the individual. The nomination must then be approved by the department chair/unit director for review and appointment by the Dean of the College of Graduate Studies.

Graduate faculty scholars may be designated as "Teaching-Only" if their responsibilities will be restricted solely to teaching graduate courses.

Graduate faculty scholars may serve as members of the thesis or dissertation committees for the purpose of bringing specific disciplinary knowledge to the committee. In instances deemed appropriate by the graduate program committee, graduate faculty scholars may also serve as co-chairs or vice chairs of thesis and dissertation committees, but may not serve as chairs of these committees. Graduate faculty scholars serving on thesis and dissertation committees, either as members or co-chairs, must have documented evidence of exceptional relevant experience and/or scholarly or creative productivity, as determined by the graduate program committee.

It is expected that graduate faculty scholars will attend the various committee meetings associated with serving as a member of a thesis or dissertation committee.

D.1: Graduate Faculty Reappointments

Individual qualifications for reappointment as a graduate faculty member will be re-evaluated by the Program Review Committee of the Graduate Council. Reappointment evaluations will be conducted at the time of the periodic university program review, or sooner, as deemed appropriate by the graduate program committee or at the request of the Dean of the College of Graduate Studies. At that time, individuals must re-submit their current credentials to the Program Review Committee of the Graduate Council if they wish to have their appointment renewed. Qualifications will be based on accomplishments since the last program review and the criteria established by the nominating graduate program.

D.2: Non-periodic Graduate Faculty Review

In addition to the periodic review of faculty for reappointment as Graduate Faculty (as described in D.1), individuals may be reviewed at any time, for cause, such as not maintaining scholarly currency, not providing appropriate mentorship or high-quality education to students, or violations of process, policy, or law.

Serious concerns over a Graduate Faculty's actions should be brought to the attention of the Dean of the College of Graduate Studies. The Dean of the College of Graduate Studies will evaluate the initial concern and decide whether it warrants review by the Graduate Council Program Review and Awards Committee. If a review is warranted, the Dean of the College of Graduate Studies will charge the committee with investigating the situation and compiling a written report. During the investigation, the committee will review verbal and/or written statements by the faculty member and other relevant parties in addition to other sources of information necessary to make a recommendation. The written report will include a summary of the findings and a recommendation about the individual's Graduate Faculty status, with justification for the recommendation. The recommendation may be: 1) no change in Graduate Faculty status, 2) a probationary status (in which Graduate Faculty activities are limited or closely monitored while the faculty member completes the required developmental activities), 3) suspension of Graduate Faculty status, or 4) revocation of Graduate Faculty status, with the latter two typically reserved for more egregious behaviors. The Dean of the College of Graduate Studies will review the report and, in consultation with the Dean of the academic college of the Graduate Faculty, make a decision about the individual's Graduate Faculty status. For cases of probationary status or suspension of Graduate Faculty status, this decision will include the specific terms of the probationary or suspension period, including its duration. The faculty member can appeal the decision with the Provost.

D.3: Reinstatement of Graduate Faculty Status

When Graduate Faculty status is not renewed (during the Periodic Faculty Reappointment process per D.1), a faculty member can request to the College Dean a one-time re-evaluation of his/her credentials. If the reappointment is not granted, then the faculty member must wait two years (or more) to request to be re-nominated. When Graduate Faculty status is revoked (based on the outcome of a Non-periodic Graduate Faculty Review per D.2), faculty members can request to the Dean of the College of Graduate Studies to be re-nominated for Graduate Faculty status two (or more) years after the decision to remove Graduate Faculty status. For reinstatement, documentation regarding the removal from Graduate Faculty status will be considered, along with the re-nomination request.

D.4: Guidelines for a Thesis or Dissertation Committee Member Who Leaves UCF

A thesis or dissertation committee member who leaves UCF may be eligible to continue serving on the committee as a graduate faculty scholar with the approval of the graduate program committee.

D.5: Guidelines for a Thesis or Dissertation Committee Chair Who Leaves UCF

In the event that a chair of a thesis or dissertation committee leaves UCF:

1. With the approval of the graduate program committee, a chair of a thesis or dissertation committee who leaves UCF may continue to serve as chair and supervise the thesis or dissertation for one calendar year after leaving.
2. If one calendar year has passed since the faculty member left UCF and the advisee has not yet completed the degree requirements, the departed faculty member may continue to serve as co-chair of the thesis or dissertation committee as a graduate faculty scholar, with approval of the graduate program committee; however, a new chair from the student's department (or college, if a college-wide program) shall be designated.

D.6.1: Faculty Emeriti

Emeritus graduate faculty members may continue to participate in graduate education as a graduate faculty scholar, without the necessity of nomination. With the approval of the graduate program committee, they may continue to serve for a specified period of time as faculty advisers and chairs of thesis and dissertation committees established prior to emeritus status. Emeriti faculty may not chair additional thesis and dissertation committees but may continue to serve on thesis and dissertation committees as a member or co-chair for as long as they remain active with the institution.

D.6.2: Retired Faculty

In the event that a chair of a thesis or dissertation committee retires from UCF:

1. With the approval of the graduate program committee, a chair of a thesis or dissertation committee who retires from UCF may continue to serve as chair and supervise the thesis or dissertation for one calendar year after leaving.
2. If one calendar year has passed since the faculty member retired and the advisee has not yet completed the degree requirements, the retired faculty member may continue to serve as co-chair of the thesis or dissertation committee as a graduate faculty scholar, with approval of the graduate program committee; however, a new chair from the student's department (or college, if a college-wide program) shall be designated.

E.1: Responsibilities of Members of Dissertation Committees

1. To meet at regular intervals at least once per year to: (i) discuss and approve the proposed dissertation research and the plans for carrying out the research; and (ii) to assess progress towards the dissertation and give the student a yearly letter of evaluation in addition to S/U grades awarded for 7980 courses.
2. To review iThenticate results from dissertation submittals.
3. To participate in the candidacy and/or dissertation prospectus examination.
4. To participate in the dissertation defense to assure: (i) that the dissertation is acceptable as original research and a contribution to the discipline; and (ii) that it meets the standards of the University.

E.2: Responsibilities of the Chair (and co-Chair) of Dissertation Committees

1. In cooperation with the program director, to review the program of study, the research, and all other degree requirements by meeting with the student early in the program and immediately after appointment as chair/co-chair.
2. To suggest to the student possible committee members who could serve on the dissertation committee.
3. To establish timelines for the research, set expectations, and evaluate the student progress based upon these.
4. To meet at regular intervals with the student to discuss the proposed dissertation research and the plans for carrying out research.
5. To review in a timely manner all written materials submitted by the student and offer suggested revisions.
6. To meet at least once per year with the student and the dissertation committee to assess progress toward the dissertation and give the student an annual review in addition to the S/U grades awarded for 7980 courses. The chair shall send the annual review to the program director after consultation with the dissertation committee.
7. To coordinate the ongoing efforts of the committee as its chair, and to participate fully in the responsibilities of the committee members as a member of the dissertation committee.
8. To chair the candidacy and/or dissertation prospectus examinations.

9. To be physically present and chair the dissertation defense, ensure its proper conduct as described above, and submit to the program director for the student's records all necessary grades, forms and other materials.
10. In disciplines where funding is essential to the success of the thesis or dissertation work, to acquire funds (and appropriate facilities) sufficient to support the research of the student.

E.3: Responsibilities of the External Committee Member of a Dissertation Committee

1. External committee membership will entail the full responsibilities of other committee membership as specified in section E.1 above, including being present at the final defense.
2. External committee members should bring specific disciplinary knowledge or research expertise to the committee.
3. External committee members may be appointed from outside of the university or outside of the college (if the committee is for a college-wide program). The external committee member may not be affiliated in any way with the department of the committee, such as through joint or secondary joint appointments.
4. Graduate faculty scholars are external members.

E.4: Dissertation Committee Procedures

1. For on-campus defenses, no fewer than four faculty members, including all members of the dissertation committee, shall be in attendance with the student during the dissertation defense, and at least half of the committee must be physically present.
2. Graduate programs may elect to offer the option of a virtual dissertation defense (student off-campus defense) upon approval of the graduate program director, the department, and the college. If the student defends virtually, at minimum the dissertation committee chair will be present at the campus location of the public defense. No fewer than four faculty members, including all members of the dissertation committee, shall be in attendance during the dissertation defense.
3. Only members of the dissertation committee may sign the dissertation, and a majority must approve the dissertation.

F.1: Exceptions

Exceptions may be made at the discretion of the Vice Provost and Dean of the College of Graduate Studies.

Admissions

The UCF College of Graduate Studies coordinates the admission process with each of the graduate program directors to admit prospective students to graduate study. The College of Graduate Studies also admits students who are applying as nondegree-seeking students.

In order to enroll in graduate classes, students must have obtained a baccalaureate or higher degree, prior to the start of the term for which the student is admitted, from an accredited U.S. institution recognized by UCF or from a recognized foreign institution. Students without a baccalaureate or higher degree from an accredited U.S. institution recognized by UCF or a recognized foreign institution are not admitted to graduate degree programs, graduate certificate programs, or graduate non-degree status.

Admission to the University

All graduate students being admitted to the university must meet the minimum UCF admission requirements.

The admission process begins with the receipt of the Graduate Application for Admission along with all application requirements. In order to be considered for admission to a graduate program, the following information must be submitted and on file in the UCF College of Graduate Studies by the stated application deadline: application, residency, and any application requirements specified by the program. These documents become part of UCF's files and will not be returned to or copied for the applicant. All application requirements, aside from transcripts and test scores, must be submitted together with the online application. Transcripts and test scores must be official.

For specific graduate program information, refer to the appropriate program descriptions in the Graduate Programs section of this catalog. Program application deadlines are listed for each graduate program.

NOTE: All graduate programs require that all application requirements (application form, residency form, recommendations, essay/personal statement, resume) be submitted online simultaneously by the stated application deadline. Official test scores (if required) must be sent directly from ETS/Pearson Vue to the UCF College of Graduate Studies (institution code 5233 for GRE and TOEFL; institution code RZT-HT-58 for GMAT). Official transcripts should be sealed in an envelope by the registrar of the former institution and sent directly to the UCF College of Graduate Studies, P.O. Box 160112, Millican Hall 230, Orlando, FL 32816-0112.

Once the online application and all application requirements are received, the UCF College of Graduate Studies will send you an e-mail notifying you of its receipt. The actual processing of the application, however, is not initiated until the application fee and other application requirements are received in the UCF College of Graduate Studies. Please refer to the graduate program's admissions information in order to become familiar with the procedures specific to each program.

When all application requirements are received by the stated deadline and processed by our office, the appropriate graduate program reviews it in order to make an admission recommendation. Acceptance into a graduate program will be granted by the UCF College of Graduate Studies.

Nondegree-seeking applicants will receive notice of acceptance to the university and registration information from the UCF College of Graduate Studies. Admission as a nondegree student does not constitute admission to a graduate program or graduate certificate program.

Readmission to the University

A regularly admitted student who has not been registered for three consecutive semesters must apply for readmission to the same graduate program through the UCF College of Graduate Studies. Readmission is also required if a student has been previously dismissed from a graduate program and wishes to gain entrance back into that same program. Students seeking readmission must complete the online application along with all application requirements. An application processing fee is required. Please refer to the Graduate Programs section to ensure that you have not missed the deadline for your program. Readmissions are not guaranteed.

- U.S. Citizens and Resident Aliens
- International Students
- Information for All Applicants
- Residency

U.S. Citizens and Resident Aliens

U.S. citizens and resident aliens in the United States must submit the following application requirements directly to the UCF College of Graduate Studies:

- Graduate Online Application for Admission (electronically signed and submitted by the applicant).
- Residency Classification form (submit with online application).
- A \$30 nonrefundable application fee is required of all applicants for each application submitted.
- One official transcript (in a sealed envelope) from each college/university attended. **For UCF students applying to UCF graduate programs:** You do not need to request transcripts of your UCF course work. The UCF College of Graduate Studies will request those transcripts internally.
- Graduate Record Examination scores (GRE) or General Management Admission Test (GMAT) scores for doctoral applicants and for those applying to master's programs that require an admissions test. These scores must be sent directly to UCF by the appropriate testing agency.
- Test of English as a Foreign Language (TOEFL) scores sent directly to UCF, if an applicant is from a country where English is not the only official language, or when an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will also accept the International English Language Testing System (IELTS) scores.
- Recommendations, if required by the graduate program (complete this section of the online application).
- Resume, essay, or other materials if required by the graduate program (must be submitted as part of the online application).
- Immunization Form*.

Some graduate programs may require interviews, portfolios, or other material. Official application requirements (or duplicate copies) should not be submitted directly to the graduate programs as it will delay the processing of the application. All official application requirements, with the exception of test scores and transcripts, must be submitted online. The UCF College of Graduate Studies must receive the application and all application requirements by the stated application deadline.

*To expedite processing of materials, download and print the Immunization Form from the online application. Send the completed form to the address specified on the form. This form is not used in making an admission decision. However, you will not be allowed to enroll at UCF without submitting the Immunization Form. Please visit the UCF Student Health Services website for additional information regarding this required form.

Nondegree-seeking Students

If you are interested in taking graduate courses at UCF for personal or professional enhancement or to prepare for possible admission to a graduate program, you may enroll as a nondegree-seeking student. An online application must be submitted.

Nondegree-seeking students must submit the following application requirements directly to the UCF College of Graduate Studies:

- Graduate Online Application for Admission (electronically signed and submitted by the applicant).
- Residency Classification form (submit with online application).
- A \$30 non-refundable application fee is required of all applicants for each application submitted.
- One official transcript (in a sealed envelope) showing an earned bachelor's degree from an accredited institution recognized by UCF. **For UCF students applying as nondegree-seeking:** You do not need to request transcripts of your UCF course work. The UCF College of Graduate Studies will request those transcripts internally.
- Immunization Form*

The UCF College of Graduate Studies must receive the online application and all application requirements electronically (with the exception of transcripts) by the stated application deadline.

Please note that non-degree admission or admission to a graduate certificate program at UCF does not guarantee admission to graduate status in a degree program. International students are not eligible for non-degree status unless

they hold an eligible visa. International students taking online courses from their home country are eligible to be nondegree-seeking since they do not require a visa.

Not all graduate degree programs accept nondegree-seeking students. Please contact the program director for the graduate program you wish to take classes in before beginning the online application process to verify if the program accepts nondegree-seeking students and if specific enrollment instructions apply for graduate-level courses.

In general, nondegree-seeking students are not eligible for financial aid, assistantships, fellowships, or tuition support, although it is best to check with the Office of Student Financial Assistance for specific details. Nondegree-seeking students must be enrolled in 12 credit hours or more to be considered in full-time status.

*To expedite processing of materials, download and print the Immunization Form from the online application. Send the completed form to the address specified on the form. This form is not used in making an admission decision. However, you will not be allowed to enroll at UCF without submitting the Immunization Form. Please visit the UCF Student Health Services website for additional information regarding this required form.

Transient Students

Students attending UCF for a term from another institution where they are receiving their graduate degree are classified as transient students. Transient students can apply online as a Nondegree-seeking student. An online application must be submitted.

Application requirements for transient students are:

- Graduate Online Application for Admission (electronically signed and submitted by the applicant; select "Nondegree (General)").
- A \$30 non-refundable application fee is required of all applicants for each application submitted.
- Residency Classification form (submit with online application).
- An official transcript (in a sealed envelope) showing an earned bachelor's degree from an accredited institution recognized by UCF OR a letter from your home institution stating that you are in good academic standing and that the institution will accept the transfer of the hours.
- Immunization Form*

The UCF College of Graduate Studies must receive the online application and all application requirements electronically (with the exception of transcripts) by the stated application deadline.

*To expedite processing of materials, download and print the Immunization Form from the online application. Send the completed form to the address specified on the form. This form is not used in making an admission decision. However, you will not be allowed to enroll at UCF without submitting the Immunization Form. Please visit the UCF Student Health Services website for additional information regarding this required form.

Certificate Students

If you are interested in taking graduate courses at UCF in a specialized or interdisciplinary area, you may enroll in one of our many graduate certificate programs. In order to apply to a certificate program, complete the online application.

Application requirements for certificate students are:

- Graduate Online Application for Admission (electronically signed and submitted by the applicant).
- A \$30 non-refundable application fee is required of all applicants for each application submitted.
- Residency Classification form (submit with online application).

- One official transcript (in a sealed envelope) showing an earned bachelor's degree from an accredited institution recognized by UCF. **For UCF students applying for a certificate:** You do not need to request transcripts of your UCF course work. The UCF College of Graduate Studies will request those transcripts internally.
- Immunization Form*

The UCF College of Graduate Studies must receive the online application and all application requirements (with the exception of transcripts) electronically by the stated application deadline.

If you are a regular graduate student in a graduate degree program and wish to supplement your degree with a graduate certificate, you may do so by completing the online application indicating the graduate certificate program you are interested in. **In order to complete a graduate certificate program, a student must apply and be admitted to a specific graduate certificate program.** International students on an F-1 visa may not be accepted solely into a certificate program unless they are concurrently enrolled in a graduate degree program, in the English Language Institute at UCF or are attending UCF as a transient student and hold an I-20 from an approved institution.

Students who choose to pursue both a degree and a professional graduate certificate must sustain normal academic progress toward the degree program.

*To expedite processing of materials, download and print the Immunization Form from the online application. Send the completed form to the address specified on the form. This form is not used in making an admission decision. However, you will not be allowed to enroll at UCF without submitting the Immunization Form. Please visit the UCF Student Health Services website for additional information regarding this required form.

International Students

The application for admission to a graduate program is submitted electronically through the online application. The College of Engineering and Computer Science encourages prospective students to pre-apply before completing the online application for graduate admission.

- College of Engineering and Computer Science pre-application: www.cecs.ucf.edu/prescreen/

If you are not a U.S. citizen or resident alien, you must submit the following application requirements directly to the UCF College of Graduate Studies:

Graduate Online Application for Admission (electronically signed and submitted by the applicant by the stated application deadline).

- A \$30 non-refundable application fee, paid as a check or money order in U.S. currency drawn on a U.S. bank and made payable to the University of Central Florida, is required of all applicants for each application submitted.
- One official transcript (in a sealed envelope) showing a bachelor's degree earned at an accredited U.S. institution recognized by UCF or from a recognized foreign institution, accompanied by an official certification of degree, with date awarded. If a student has attended more than one college or university, separate transcripts must be submitted.
- Residency Classification form (submit with online application)
- The university conducts a complete assessment of all required credential documents (official transcript(s) and official certification of degree) submitted by the student, including the record of all academic coursework. Excluding the Physical Therapy DPT program, all master's programs not requiring a standardized admissions test (i.e. GRE, GMAT), and those master's programs in the College of Business Administration and the Rosen College of Hospitality Management, the university will evaluate all credentials for international students who have received their degree at a college or university outside of the United States. Additional information is available in the Transcripts Evaluation section on this webpage.

- Graduate Record Examination scores (GRE) or General Management Admission Test (GMAT) scores for doctoral applicants and for those applying to master's programs that require an admissions test. These scores must be sent directly to UCF by the testing agency.
- Test of English as a Foreign Language (TOEFL) scores sent directly to UCF, if an applicant is from a country where English is not the only official language, or when an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will also accept the International English Language Testing System (IELTS) scores.
- Financial Statement with a letter indicating commitment (from your parents, government, or others) to financially support your education.
- Recommendations, if required by the graduate program (complete this section of the online application).
- Resume, essay, or other material, if required by the graduate program (must be submitted as part of the online application).
- Immunization Form*

Some graduate programs may require interviews, portfolios, or other materials. Official application requirements (or duplicate copies) should not be submitted directly to the graduate programs as it will delay the processing of the application. All official application requirements, with the exception of test scores and transcripts, must be submitted online. The UCF College of Graduate Studies must receive the application and all application requirements by the stated application deadline.

*To expedite processing of materials, download and print the Immunization Form from the online application. Send the completed form to the address specified on the form. This form is not used in making an admission decision. However, you will not be allowed to enroll at UCF without submitting the Immunization Form. Please visit the UCF Student Health Services website for additional information regarding this required form.

International Student Admissions Policies

UCF adheres to the principle that the university is primarily a community of scholars, both national and international, in pursuit of knowledge, and active in teaching, studying, and doing research. The presence of international students on the campus contributes substantially to the quality of the educational experience for everyone. It can bring to the classroom learning environment unique viewpoints and perceptions that would otherwise be lost. Effective personal contact across cultures can reduce errors in understanding one another's problems and foster a climate of international peace and cooperation among people of the world today.

To expedite the application process, international applicants should submit all documents (application, test scores, letters of recommendation, transcripts, etc.) under the same name, preferably the name as it is listed on the official passport. Upon receiving an application, the UCF College of Graduate Studies assigns a student identification number (for example, 828-XX-XXXX). This number should be included whenever possible in all correspondence. International students are not eligible for nondegree/certificate status unless they hold an eligible visa.

Additional information regarding immigration processes and transition to the UCF community is available from UCF Global. It is to be noted that due to federal regulations around international student visas 8 CFR 214.3(k), the College of Graduate Studies will only admit international graduate students in a degree program under the **Graduate Status—Regular** and must meet all relevant admission criteria under this status.

International applicants are encouraged to begin the application process early. Also, international applicants should ensure that all application requirements, including those required to issue an I-20, are received by the stated application deadline. Only official documentation is accepted and it is the student's responsibility to submit all documents by the application deadline.

Official Transcripts

All applicants for graduate admission must provide one official transcript (in a sealed envelope) showing a bachelor's degree earned at an accredited U.S. institution recognized by UCF or an internationally recognized institution and an official diploma/degree certificate, with date awarded. If a student has attended more than one college or university, separate transcripts must be submitted for each institution. To be official, transcripts and diploma/degree certificate must bear the original seal or signature of the school's registrar or of the appropriate school official or office. To ensure the timely evaluation of academic credentials, applicants should submit all transcripts, accompanied by a diploma/degree certificate, at the time of application and by the stated application deadline.

Transcript Evaluation

Evaluation Policy

The university conducts a complete assessment of all required credential documents (official transcripts and official certification of degrees) submitted by the student, including the record of all academic coursework. Excluding the Physical Therapy DPT program, Communication Sciences and Disorders MA program, all master's programs not requiring a standardized admissions test (i.e. GRE, GMAT), and those master's programs in the College of Business Administration and the Rosen College of Hospitality Management, the university will evaluate all credentials for international students who have received their degree at a college or university outside of the United States. Additional information regarding specific application requirements and credentials processing for the Physical Therapy DPT program, Communication Sciences and Disorders MS program, those master's programs not requiring a standardized admissions test, and for all master's programs in the College of Business Administration and the Rosen College of Hospitality Management is given below.

The university does not consider documents certified by a notary public or commissioner of oaths to be official. Photocopies of certified documents are not acceptable. Coursework completed at one institution but listed on the record of a second institution is not acceptable. A separate copy of the record from the first institution is required.

If these documents are written in a language other than English, a certified translation in English must be provided together with the original language records. Any translated record should be a literal and not an interpretive translation. Acceptable English translations may be provided by sworn court-approved translators, qualified translators working within university foreign language departments, and from reputable translation agencies. We recommend the services of University Language Services (ULS) and Josef Silny and Associates, Inc. for certified translations.

If a student is missing any documentation or other required information, an evaluator will contact the student by e-mail to request additional documentation/information. In the case that a student is missing documentation/information, the evaluation process will be placed on hold until the university has received all necessary documentation. All students are advised to submit all required documentation as early as possible so as to not to delay the evaluation process.

In the event that the university receives documentation that is questionable, or suspicious in any way, the university will verify authenticity with the issuing foreign institution. If an institution must be contacted for verification, the evaluation process will be placed on hold until the university has received all the necessary information.

Equivalency Information

All international applicants for graduate study at the University of Central Florida must hold a U.S. Bachelor's degree, or its equivalent, from a governmentally recognized institution of higher learning. This is a minimum requirement for admission to a graduate program at UCF. For a list of some country-specific information on foreign degree equivalents and required documentation, please visit the Sample Country Requirements website.

The following requirements apply to applicants to the Physical Therapy DPT program, the Communication Sciences and Disorders MA program, any master's programs not requiring a standardized admissions test, and master's programs in the College of Business Administration and Rosen College of Hospitality Management:

In addition to official transcripts and certification of degrees, a course-by-course credential evaluation with GPA calculation is required of all students who have attended a college/university outside the United States. Credential evaluations are accepted from Josef Silny and Associates, Inc. or World Education Services (WES) only. All documents required by World Education Services (WES) or Josef Silny and Associates, Inc., must be submitted directly by the applicants. The university is not responsible for forwarding any documents received by our office to Josef Silny and Associates, Inc. or World Education Services (WES).

Resources for International Transcript Evaluations

UCF accepts transcript evaluations from the following two agencies only:

- Josef Silny and Associates, Inc.
- World Education Services, Inc.

Documents Needed to Issue an I-20

Refer to the UCF Global website for information on policies and documents needed to issue an I-20. All documents needed to issue an I-20 must be received by the stated application deadline.

For additional questions about documents required for I-20 issuance, you may contact the UCF Global office by e-mail (INTLadmissions@ucf.edu) or by telephone (407) 823-2337.

International Application Deadlines

Complete applications (including all application requirements) for all graduate programs must be received electronically by the date listed below to be considered for admission for that term. Failure to meet these deadlines may prevent admission as a regular graduate student for the term. **Please refer to the Graduate Programs section in this catalog for programs that have earlier deadlines for international applicants.**

The following dates are university application deadlines for international students (students from abroad and domestically):

Fall admission: January 15

Spring admission: July 1

Summer admission: November 1

In addition, students who wish to be considered for fellowships or assistantships must have a complete application package by January 15 (or the designated Fall Priority date for their program).

Test of English as a Foreign Language

International students, except those who are from countries where English is the only official language, those who have earned a degree from an accredited US college or university recognized by UCF, or those who have earned a degree from a country where English is the only official language or a university at which English is the only official language of instruction, are required to submit a score on the Test of English as a Foreign Language (TOEFL) before they can be admitted to the university. Although we prefer the TOEFL, we will also accept the International English Language Testing System (IELTS) scores. Students who are non-native speakers of English (and do not have a degree from a U.S. institution) must pass the English Speaking test administered by the UCF English Institute before they will be permitted to teach as a Graduate Teaching Associate or Graduate Teaching Assistant.

A TOEFL computer-based score of 220 or 80 on the internet-based TOEFL (or equivalent score on the paper-based test) or 6.5 on the IELTS is required unless otherwise specified by the program. The list below includes programs that have determined a minimum required TOEFL or IELTS score higher than the university requirement.

Program	TOEFL (Paper)	TOEFL (Computer)	TOEFL (iBT)	IELTS
<u>College of Arts and Humanities</u>				
English	577	233	91	7
History	577	233	91	7
<u>College of Sciences</u>				
Biology	573	230	89	7
Security Studies PhD	575	232	90	7
<u>College of Business Administration</u>				
	577	233	91	7

International Student Mandatory Health and Accident Insurance

Each international student accepted for admission must, prior to registration, submit proof of compliance with the Board of Education's mandatory health and accident insurance. There are no exceptions made for submitting this proof. Written proof of insurance must be provided to the Student Health Services Center and must be valid at all times. Cancellation of the policy or stoppage of the premium will result in administrative withdrawal from all classes. If an insurance carrier from outside of the United States issues the insurance, a notarized statement, in English, must be provided attesting to meeting the minimum coverage mandated by the state of Florida.

If an insurance carrier from outside of the United States issues the insurance, a notarized statement, in English, must be provided attesting to meeting the minimum coverage mandated by the state of Florida.

For additional information regarding student health insurance, contact the UCF Student Health Services.

Tax Obligations

The Internal Revenue Service (IRS) is the U.S. government institution that oversees the withholding and filing of taxes. International students are not always exempt from income taxes in the United States. To determine your tax obligations, students should visit the IRS website.

Upon arrival at UCF, international students will be required to apply for a Social Security Number (SSN) or Individual Taxpayer Identification Number (ITIN) and provide this number to the Registrar's Office at UCF. UCF Global will help international students complete the paperwork required for their visa and SSN or ITIN.

International students who will have graduate assistantships will not be allowed to begin work until the department or program submits the valid SSN and assistantship paperwork to UCF Human Resources.

International students who are to receive tuition support or fellowships must provide a valid SSN to the Registrar's Office before payment processing can occur. Those with fellowships must also complete additional paperwork with the UCF Finance and Accounting Office. Deferments for tuition and fellowship awards will be placed on the student's account, but payment cannot occur until all required paperwork is completed and the valid SSN has been provided to the Registrar's Office.

Employment of International Students

International students must have their I-20 authorized by the International Services Center for any on-campus or off-campus employment. Approved on-campus employment must be validated by presenting all immigration documents and Social Security Number to the UCF Human Resources (HR) Department. International students are not allowed to start employment until they present receipt of Social Security Card application or Social Security Number issued to them by the Social Security Administration.

For detailed information on employment and taxation, visit the websites of UCF Human Resources and UCF Finance and Accounting.

Information for All Applicants

Application Forms

The application for admission to a graduate program is submitted electronically through the online application. A nonrefundable application fee is required of each applicant for each application submitted.

Official Transcripts

To be granted admission to UCF in graduate or nondegree status, all applicants must request official transcripts (in a sealed envelope) from their previous institution showing a baccalaureate degree and their grades in all work attempted while registered as an undergraduate student OR while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours). Transcripts must be mailed directly from the previous institution to the UCF College of Graduate Studies.

For UCF students applying to UCF graduate programs: You do not need to request transcripts of your UCF course work. The UCF College of Graduate Studies will produce those transcripts internally.

If grades were transferred from other schools in the last 60 semester hours, official transcripts from those schools also must be obtained and submitted. If applying to Business, Social Work, or Psychology, all transcripts from all colleges attended are required. Final acceptance into degree-seeking graduate status is not granted unless an applicant's official transcripts are on file so that they can be evaluated for admission.

Graduate Examinations

All students who wish to be admitted in regular degree-seeking status to a doctoral program or wish to be considered for university-wide fellowships must submit an official GRE General Test score (or an official GMAT score as

required). Some master's level programs may also require the GRE or GMAT for admission. Some graduate programs may also require the GRE subject test before admission into graduate student status.

International students, except those who are from countries where English is the only official language, those who have earned a degree from an accredited US college or university recognized by UCF, or those who have earned a degree from a country where English is the only official language or a university at which English is the only official language of instruction, are required to submit a score on the Test of English as a Foreign Language (TOEFL). Although we prefer the TOEFL, we will also accept the International English Language Testing System (IELTS) scores.

Official test scores must be electronically forwarded to the UCF College of Graduate Studies directly from the appropriate testing agency. Test scores must be on file by the stated application deadline. UCF recommends that any individual contemplating classwork beyond the bachelor's degree take the GRE or GMAT at the earliest possible date to avoid problems associated with a delay of acceptance into a graduate program. Test scores are usually available in four to six weeks.

Registration Information and Resources:

- **GMAT Services** -- 1-800-GMAT-NOW | www.mba.com/us | UCF Institution Code: RZT-HT-58
- **GRE Services** -- 1-800-GRE-CALL | www.ets.org | UCF Institution Code: 5233
- **TOEFL Services** -- 1-800-GO-TOEFL | www.ets.org | UCF Institution Code: 5233
- **IELTS Services** -- 1-626-564-2954 | www.ielts.org
- Preparatory courses are offered through UCF's Division of Continuing Education -- (407) 882-0260 | www.ce.ucf.edu

Pearson Vue and the Educational Testing Service's policy are to report scores only until September 30 following the fifth anniversary of the test date. In other words, test scores are only valid for five years. If ETS/Pearson Vue cannot provide an official copy, students will need to repeat the GRE or GMAT and have an official score reported to the UCF College of Graduate Studies. Test of English as a Foreign Language (TOEFL) scores are only valid from ETS for two years.

Medical History Report

All new students must furnish medical history reports on the approved university Immunization Form before registration will be allowed. The Immunization Form is available from the UCF Student Health Services. This form should be completed and mailed to the address on the form. Immunizations and diagnostic procedures may be required of students by the university prior to any registration. University requirements for vaccinations or immunizations may be waived upon receipt of appropriate documentation from the student that the waiver is requested on the basis of religious grounds or on the recommendation of a university physician.

Where physician examinations or certificates are required, they must be signed by a doctor of medicine or by a doctor of osteopathy. The university reserves the right to refuse registration to any student whose health record or report of medical examination indicates the existence of a condition that may be harmful to members of the university community.

Validity of Application Requirements

If the university finds that an applicant has made a false or fraudulent statement or a deliberate omission on the application, residency affidavit, health report, or any accompanying document or statement, that applicant will be denied admission. If the student is enrolled when such fraud is discovered, the student may be immediately withdrawn (with no refund), denied further enrollment, and invalidated on credit and any degree based on such credit. International students may face deportation. Actions for this type of offense are handled administratively by the Student Development and Enrollment Services after notification to the alleged violator and hearing by that office.

Deadline for Application Requirements

If the graduate program has a specific deadline, the application and all application requirements must be received electronically by that deadline (see the Graduate Programs section in this catalog). For all other programs and nondegree applicants, the application and all application requirements should be received by the UCF College of Graduate Studies no later than July 15 for fall admission, December 1 for spring admission, or April 15 for summer admission. For international applicants, all application requirements should be received by the UCF College of Graduate Studies and all documents required to issue an I-20 be received by the International Service Center no later than January 15 for fall admission, July 1 for spring admission, and November 1 for summer admission. In some cases, applicants may be allowed to register on a temporary basis (without all application requirements), assuming it can be determined from available records or consultation with the students that they appear admissible. Failure to submit records by mid-term of the first semester will result in registration holds for all succeeding terms. Transcripts should be sealed in an envelope by the registrar of the former institution and mailed directly to the UCF College of Graduate Studies.

Professional Credentialing or Licensure

If you intend to pursue professional licensure or other credentialing in your state or elsewhere, we advise you to contact the applicable state credentialing authority to familiarize yourself with its specific requirements and determine if your selected UCF program of study meets its academic criteria. You are welcome to contact a UCF program advisor with questions in this regard and we will do our best to assist you in your career planning.

Change of Major

When students wish to change their major or college, after having applied and/or been admitted to a graduate program, they must file a new online application and submit all application requirements for their intended new program at the UCF College of Graduate Studies. A new application processing fee is required. The program director of the new graduate program will then review the student's application file and make an admission recommendation.

Second Master's Degree

Individuals seeking a second master's degree must file a separate online application and application fee for that graduate program and complete the normal UCF master's degree application requirements for the second degree.

Up to nine semester hours from a completed master's program at UCF or any other institution may be transferred into a second master's program if the courses are not more than seven years old when the second degree is completed.

Applicants are not permitted to apply to a second master's degree program if they have previously earned the same master's degree from UCF regardless of any difference in track selection. Questions concerning this should be directed to gradadmissions@ucf.edu.

Admission Decisions

After receiving all official transcripts, standardized test information, and other documents required by the program, the graduate program director will make an admission recommendation. Admission to graduate status can be in any one of the following categories: regular, conditional, provisional, provisional/restricted, provisional/conditional, restricted, or restricted/conditional status.

Final admission to a graduate program is granted by the UCF College of Graduate Studies. Admission is only valid for the term in which the student is admitted. If the student does not enroll in their first term of admission, their admission will be revoked and they will need to reapply to a future term.

Admission Classifications

Graduate Status—Regular

All students who wish to be admitted in regular degree-seeking status or nondegree-seeking status must submit a final, official transcript from an accredited US institution recognized by UCF or its equivalent from a foreign institution. All students who wish to be admitted in regular degree-seeking status to a doctoral program or wish to be considered for university-wide fellowships must also submit an official GRE General Test score or an official GMAT score as required. The minimum university application requirements for admission to regular graduate status are listed below. Individual graduate programs may specify additional application requirements.

- A bachelor's degree from an accredited U.S. institution recognized by UCF or its equivalent from a foreign institution and a GPA of 3.0 or more (on a 4.0 maximum) in all work attempted while registered as an undergraduate student OR while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours); OR, a graduate degree or professional degree or equivalent from an accredited U.S. institution recognized by UCF or its equivalent from a foreign institution in a field related to the discipline of the program to which the student is applying.
- Students applying to doctoral programs must submit a competitive score on the General Test of the Graduate Record Examination or a competitive score on the Graduate Management Admission Test (as required) or an equivalent score on an equivalent measure approved by the graduate program and the university.
- Students applying to doctoral programs must also submit three letters of recommendation, a resume or curriculum vita, and a written essay.
- A student must be accepted by the program director offering the particular degree program sought and the UCF College of Graduate Studies. Graduate programs are encouraged to have more restrictive application requirements than the minimum university application requirements. Graduate program requirements may be based on other factors such as work experience, research interests of the prospective student, evidence of extracurricular or community work, personal interviews, or other factors specified by the program.
- International students must demonstrate their proficiency in the English language. International students, except those who are from countries where English is the only official language, those who have earned a degree from an accredited US college or university recognized by UCF, or those who have earned a degree from a country where English is the only official language or a university at which English is the only official language of instruction, are required to submit a score on the Test of English as a Foreign Language (TOEFL) and achieve a score on the computer-based test of 220 or 80 on the internet-based TOEFL (or equivalent score on the paper-based test) or IELTS before they can be admitted to the university. Although we prefer the TOEFL, we will accept IELTS scores of 6.5 or higher unless otherwise specified by the program.
- International students applying to master's programs that do not require a GRE or GMAT, must submit a course-by-course evaluation with GPA calculation of their official transcripts from a credential evaluation service recommended by UCF. This course-by-course evaluation must show a GPA that is equivalent to a 3.0 from an earned degree that is equivalent to a U.S. bachelor's degree.
- It is to be noted that due to federal regulations around international student visas 8 CFR 214.3(k), the College of Graduate Studies will only admit international graduate students in a degree program under the **Graduate Status – Regular** and must meet all relevant admission criteria under this status.

Graduate Status—Conditional

A student who meets the minimum university application requirements for regular admission (as listed above) but has not submitted all required documents may be admitted conditionally upon recommendation of the program director to which admission is sought and the UCF College of Graduate Studies. Conditions must be met by mid-term of the first semester. Registration will only be available for the term the student has been admitted. Future term enrollment will be open once the conditions are met. At that time, the student will be changed to regular graduate status.

Graduate Status—Restricted

Even though minimum university application requirements are met, a graduate program may attach restrictions to the admission of an applicant, such as higher GPA requirements, completing a standardized test, completing certain prerequisite courses, maintaining a certain GPA in the first few hours of a graduate program, etc. Students may be denied admission to regular graduate status if the restrictions are not met.

Students who have a graduate GPA of less than 3.0 while in graduate status or that have been placed on probation or dismissed from a program at UCF and are admitted into a new program will be admitted into the new program in restricted graduate status.

Graduate Status—Provisional

A student who does not fulfill the minimum university application requirements for regular admission (as listed above) may be admitted provisionally upon recommendation of the program director to which admission is sought and the UCF College of Graduate Studies.

Provisional students may be admitted to regular status following satisfactory completion of nine semester hours, in the graduate program and upon recommendation by the program director and Vice Provost and Dean of the UCF College of Graduate Studies.

Graduate Status—Restricted/Conditional

Even though minimum university application requirements are met, a program may attach restrictions to the admission of an applicant, such as higher GPA requirements, completing a standardized test, completing certain prerequisite courses, maintaining a certain GPA in the first few hours of a graduate program, etc. Students may be denied admission to regular graduate status if the restrictions are not met. The student also has not submitted all application requirements for admission. All application requirements for admission must be submitted by mid-term of the first semester. Registration will only be available for the term the student has been admitted. Future term enrollment will be open once the conditions are met.

Graduate Status—Provisional/Restricted

A student who does not fulfill the minimum university application requirements for regular admission (as listed above) and has not met the graduate program's specific requirements may be admitted in provisional/restricted status upon recommendation of the program director to which admission is sought and the UCF College of Graduate Studies. A graduate program may attach restrictions to the admission of an applicant, such as higher GPA requirements, completing a standardized test, completing certain prerequisite courses, maintaining a certain GPA in the first few hours of a graduate program, etc.

Provisional/restricted students may be admitted to regular status following satisfactory completion of nine semester hours, in the graduate program and upon recommendation by the program director and Vice Provost and Dean of the

UCF College of Graduate Studies AND satisfactory completion of the graduate program's restrictions. Students may be denied admission to regular graduate status if the graduate program's restrictions are not met.

Graduate Status—Provisional/Conditional

A student who does not fulfill the minimum university application requirements for regular admission (as listed above) and has not submitted all required documents for admission may be admitted in provisional/conditional status upon the recommendation of the program director to which admission is sought and the UCF College of Graduate Studies.

Provisional/conditional students may be admitted to regular status following satisfactory completion of nine semester hours, in the graduate program and upon recommendation by the program director and Vice Provost and Dean of the College of Graduate Studies AND the submission of all application requirements for admission. All application requirements for admission must be submitted by mid-term of the first semester. Registration will only be available for the term the student has been admitted. Future term enrollment will be open once the conditions are met.

Nondegree-seeking Status

Students are generally placed in this category at their request. International students are not eligible for nondegree status unless they hold an eligible visa status. A student may elect to remain in nondegree status for various reasons (e.g., requirements in a graduate program at another institution, personal improvement, meeting job requirements, and removing academic deficiencies).

While in nondegree-seeking status, students are allowed to take graduate courses, in some departments, on a space-available basis. Nondegree students may also enroll in specific graduate certificate programs. Not all departments accept nondegree students and the procedures for enrollment into graduate-level classes vary with each department. **Students should check with the individual departments or colleges before submitting an application and attempting to register.**

In general, Nondegree-seeking students are not eligible for financial aid, assistantships, fellowships, or tuition support, although it is best to check with the Office of Student Financial Assistance for specific details.

Graduate Certificate Status

Nondegree-seeking students or regular graduate students in a graduate degree program may enroll in one of UCF's graduate certificate programs. In all cases, certificate students must have earned a baccalaureate or higher degree, or equivalent, from an accredited college or university, recognized by UCF. Unless they are also enrolled in a regular degree program, graduate certificate students are treated as nondegree-seeking students. Students who pursue both a degree and a professional certificate must sustain normal academic progress toward the degree program. International students on an F-1 visa are not accepted solely into a certificate program unless they are concurrently enrolled in a graduate degree program, in the Intensive English Language Program at UCF or are attending UCF as a transient student and hold an I-20 from an approved institution.

Nondegree to Regular Graduate Status

Nondegree students wishing to apply to a graduate degree program must file a new online application and application fee for that degree program. The new online application and all application requirements must be submitted by the stated application deadline for the graduate degree program. Students who have been admitted in provisional status in a graduate degree program must file a new application if they wish to be accepted by a graduate degree program different from the program to which they were provisionally admitted.

Appeals

According to state and university regulations, students who are not accepted by a program but who meet the University minimum standards for admission to graduate status are permitted to appeal that decision. The appeal procedure consists of the student writing a letter within thirty days of the date of denial to the program director indicating the desire to appeal and the reasons for the appeal. The program director may ask the department or program graduate committee to examine the necessary information and recommend a response to the appeal. The program director will recommend an admission action to the department chair.

Should the department chair deny the appeal, and there are new circumstances, facts, or other matters that the student feels warrants consideration, the student may request further consideration from the graduate college by writing a letter to the Vice Provost and Dean of the UCF College of Graduate Studies indicating the desire to appeal further and the reasons why an appeal is sought. The Vice Provost and Dean of the UCF Graduate College may ask the Graduate Council to examine the necessary information and recommend a response to the appeal. The decision of the Vice Provost and Dean of the UCF College of Graduate Studies is final.

Residency

For information about Florida Residency for Tuition Purposes and Residency Reclassification, see the Cost section of the Graduate Admissions page.

Registration

Overview

UCF's registration system allows students to enroll for the entire upcoming academic year (3 semesters). This improves a student's ability to plan for upcoming terms and allows students more opportunity to make any necessary adjustments to registration. It is important for students to register for courses they plan to complete and fulfill requirements within their degree plan. Students are not required to register for all three terms during their initial appointment but the upcoming academic year will be available. For additional information regarding Multiple Term Registration (MTR), please visit the Registrar's Office webpage.

During each academic semester, registration is held for all new, currently enrolled, degree-seeking, and nondegree-seeking students for the following term. Registration sessions consist of Registration and Late Registration (held during the first week of classes each term).

Multiple term registration begins following mid-term of the spring semester for the following summer, fall, and spring terms. Class listings are available only online through the Class Schedule Search at my.ucf.edu. The dates and times for each registration period are included in the Academic Calendar.

Note: Newly admitted students (degree or nondegree) must register for classes in their first term in order to become and remain active. New students that do not enroll in classes in their first term will have their file inactivated and all future registration dropped. Once their file is inactivated, they will need to re-apply by completing a new online application and submitting a new application processing fee.

Please note that the last day to Drop classes is now the last day to Add classes. Please visit the Student Handbook on the Graduate Website for more information on registration and related topics.

Online Registration

Registration is available over the web using the myUCF system at my.ucf.edu and in the college advising offices.

UCF NID (Network Identification Number)

Students obtain the UCF NID Number on their first login to myUCF at my.ucf.edu. The initial login will use a default password. Following instructions, students choose a new password and reminder clue.

Web Enrollment Guide

The *Web Enrollment Guide* is published online once a year by the Registrar's Office. The *Web Enrollment Guide* provides the official "Academic Calendar" and describes the policies and procedures governing registration each term. The *Web Enrollment Guide* is available on the Registrar's Office website.

Immunization Form

All new first-term graduate students must have an Immunization Form completed before they are allowed to register at UCF. Holds placed on registration will be removed by the UCF Health Services once the Immunization Form is received. Forms may be obtained on the UCF Student Health Services website.

Continuing Graduate Students

Continuing graduate students register through myUCF after their assigned appointment day and time, which can be found in myUCF. All continuing students should register early. For graduate students with fellowships or assistantships, failure to register early may result in delays in receiving assistantship paychecks and sometimes result in the loss of tuition waivers. Continuing graduate students registering for an internship, independent study, thesis or dissertation hours, or research report hours must fill out a Registration Agreement form obtained from their adviser or department office. The college graduate office will normally register students into these courses.

Enrollment of International Students

International students are required to seek advice from UCF Global to ensure that their enrollment status meets full-time status in compliance with United States Citizenship and Immigration Services regulations. Students must obtain advice from UCF Global before dropping or withdrawing from courses that would affect their course load.

Nondegree-seeking Students

Before registering, all nondegree-seeking students should check with the departments where they want to take courses in to learn what is required for registration by that department. Certain classes are restricted, and it is best to find this out first. In the College of Education, nondegree-seeking students can ONLY register for 5000- and 6000-level classes. In the College of Business Administration, nondegree-seeking students cannot register for graduate courses. The College of Engineering and Computer Science will only allow nondegree-seeking students to register with special approval from the program director. Nondegree-seeking students who want to register for the College of Arts and Humanities, College of Health and Public Affairs, College of Optics and Photonics, College of Sciences or Rosen College of Hospitality Management courses should check with the individual graduate programs for more detailed information.

Nondegree-seeking students must be registered for 12 hours to be considered full-time. Nondegree-seeking students who already have certification elsewhere (i.e., from a College of Education in another state) are not eligible to receive financial aid. In general, nondegree-seeking students are not eligible for financial aid, assistantships, fellowships, or tuition support, although it is best to check with the Office of Student Financial Assistance for specific details.

Holds

A hold (negative service indicator) may be placed on a student's records, transcripts, grades, diplomas or registration due to financial or other obligations to the University. Satisfaction and clearance of the hold is required before a release can be given. Students may check for holds on the myUCF system at my.ucf.edu. To obtain an immediate release for Student Accounts financial holds, you may make your credit card or e-check payment online from your student account. After making a successful payment, contact Student Account Services with the remit ID to confirm your payment and have your hold released.

To release UCF College of Graduate Studies holds, the students must provide the outstanding application requirement(s) to complete their records.

Audit Registration

Audit students are those who desire to attend class(es) without receiving academic credit. Regular tuition and fees are assessed for audit registration. See "Tuition and Fees" for more information about the cost of auditing classes at UCF. Audit registration is on a space-available basis at the assigned time of Registration or at any time during Late Registration and Add/Drop when Late Registration fees will apply. Audit requests for students who register prior to this time will be denied. Students may not change to audit status after Late Registration and Add/Drop, but must remain in the course or withdraw through normal withdrawal procedures. New students must be accepted for admission. Audit forms, available on the Registrar's Office website and in the Registrar's and college advising offices, must be signed by the instructor and presented to the Registrar's Office at the time of registration.

Senior Citizen Audit

Senior citizens (60 years of age or older) who have been residents of the State of Florida for at least one year as of the first day of classes may enroll tuition-free as audit students (i.e., no academic credit) on a space-available basis. Forms to be completed include the "Residency Affidavit," the "Student Health History," and the "Senior Citizen Audit Application" and "Senior Citizen Audit Registration Form." These forms are available in the Registrar's Office (Millican Hall 161) or at the Registrar's Office website. It is necessary to complete the required forms during the last hours of registration as noted in the Academic Calendar. Direct student expenses after the completion of registration include the campus ID card, vehicle registration, and textbooks.

State Employee Registration

State of Florida employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of registration each term at the time specified on the Academic Calendar. For waiver eligibility and application information, see the "Tuition Support" section.

UCF Employee Registration

UCF employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of registration each term at the time specified on the Academic Calendar. For waiver eligibility and application information, see the "Tuition Support" section.

Fee Payments

All graduate students must pay their tuition and fees by the published fee payment deadline. If a department or college has not recorded tuition support by then, students must pay all tuition and fees. If a department or college has waived partial tuition and it is recorded, then students must pay the remainder of the tuition owed and all of the fees by the published deadline. It is important for graduate students to register early to provide the department or college enough time to record tuition support. Please visit the Student Account Services website for details on fee invoice and payment procedures.

Residency

For information about Florida Residency for Tuition Purposes and Residency Reclassification, visit the Cost page on the Graduate website.

Fee Invoices

The "Fee Invoice" is your verification of registration. You are not assured of being registered for any class until you print out your Fee Invoice/Schedule. Your fee invoice lists your fees and the classes in which you are registered. Please print a new invoice if you drop or add classes so that the invoice will reflect changes in your fees. Newly admitted students should review their Fee Invoice carefully. If a "non-resident" rate is added to your bill and you believe this is in error, please contact the UCF College of Graduate Studies as soon as possible. For information on Florida Residency for Tuition Purposes please visit the "Financial Information" section of this catalog. If you wish to pay your fees by credit card, press the "ePay fees" button, which will take you to the UCF online credit card payment system. Be sure to have your current address on file (see "Address and Email Changes," below).

You may print your "Fee Invoice" through myUCF at my.ucf.edu under the Student Accounts menu or at UCF Kiosks.

Mandatory Health Information

In order for a student to register, the State University System of Florida requires:

- All students born AFTER 1956 to present documented proof of immunity to measles (rubeola).
- All students UNDER the age of 40 to present documented proof of immunity to rubella (German measles).
- All students (REGARDLESS OF AGE) to submit a signed medical history form. Distance learning students who will never come to UCF or an area campus are only required to submit the medical history form.

Students are not allowed to register without proper health information documentation. Please refer to the Immunization Form for specific details of requirements and acceptable documentation. If you have questions, contact the Immunization Coordinator, UCF Health Services (phone: 407-823-3707; fax: 407-823-3135). Office hours for the UCF Health Services vary. Please visit the UCF Student Health Services website for additional information.

Name Changes

To change the legal name maintained on the student's official UCF record, the student must submit a completed "Change of Name" form and supporting documentation to the appropriate UCF office. Attach to the form a copy of a legal name change document (e.g., marriage certificate, divorce decree, etc.). Undergraduate students must submit the form to the Registrar's Office (Millican Hall 161). Graduate students must submit the form to the UCF College of Graduate Studies (Millican Hall 230). Current UCF employees and students who have been UCF employees within twelve months of the date the name change is requested must submit the form to the Human Resources Office (12565 Research Parkway). The "Change of Name" form is available from the Registrar's Office website or in Millican Hall 161.

Address and EMail Changes

To communicate in a more expedient manner, UCF uses e-mail as the primary means of notifying students of important university business and information dealing with registration, deadlines, financial assistance, scholarships, tuition, and fees, etc., as described in Student Responsibility for University Communication in this catalog.

If the student's address changes, it is the student's responsibility to make the appropriate changes to the address through myUCF at my.ucf.edu or at any of the kiosks located on campus. Address and email changes also can be made by submitting a Change of Address form or by writing the Registrar's Office, P.O. Box 160114, Orlando, FL 32816-0114 or fax to 407-648-5022. Written requests must be signed and the student number provided. Address changes can also be made by writing the UCF College of Graduate Studies, University of Central Florida, P.O. Box 160112, Millican Hall 230, Orlando, FL 32816-0112 or fax to 407-823-6442.

Transcript Requests

For UCF students applying to UCF graduate programs: You do not need to request transcripts of your UCF coursework. The UCF College of Graduate Studies will request those transcripts internally.

Requests for official UCF transcripts are made through the Registrar's Office (in person, by mail, or by fax). "Transcript Request Forms" are also available on the Registrar's Office website. A student's academic record can be released only upon written authorization signed by the student. Telephone and e-mail requests are not accepted. Transcripts cannot be released if the student is on hold due to a financial obligation to the university. Transcript requests must include the student's signature, full name, identification number, and the name and complete address of the person(s) or organizations to whom transcripts are to be sent. If final grades or degree statement are needed, indicate that the transcript request is to be held until all requested data are posted.

A \$10 per transcript charge is assessed for each transcript request. Payment for official transcripts is required at the time of the request and may be satisfied by cash, check or money order (made payable to UCF), credit card, or UCF Card. Requests received by mail must be accompanied by a check, money order, or credit card information (i.e., card type, card number, 3-digit Security Number, expiration date, and the name to which the card is registered.) Cash payments can be accepted only by the Cashier's Office during that office's regular business hours. The UCF Card payment option is available only at the main Orlando campus and must be made in person at the Registrar's Office (MH 161). Mail written requests for transcripts to Registrar's Office, Attn: Transcripts, P.O. Box 160114, Orlando, FL 32816-0114. For fax request information and payment procedures, refer to the Registrar's Office website or call 407-823-3100. Transcripts may be sent electronically to other Florida public institutions. Transcripts not claimed with 30 days of printing will be discarded and must be reordered. A \$10 per reordered transcript fee must be submitted with the reorder request. Grades are available from myUCF.

Enrollment Certifications

Students may obtain their enrollment online through myUCF. Enrollment certification is free to currently enrolled students. Parents, employers, background checking firms, and other third-party agencies may request enrollment and degree verifications online at <http://www.degreechk.com/>. A fee will be assessed for all such requests. UCF has contracted with *Credentials, Inc.* to provide current enrollment, degree, and past attendance verifications online 24 hours a day, seven days a week. *Credentials, Inc.* Customer Service is available at 1-847-446-1027, ext. 104 between 7:00 a.m. and 7:00 p.m. CST/CDT Monday through Friday.

Enrollment Status for Fall and Spring Terms

Nondegree-seeking		Degree-seeking	
<u>Status</u>	<u>Credit Hours</u>	<u>Status</u>	<u>Credit Hours</u>
Full	12 or more	Full	9 or more
Half	6, 7, 8, 9, 10, or 11	Half	4.5**, 5, 6, 7, or 8
LTHT*	less than 6	LTHT*	less than 4.5

Enrollment Status for Summer Term

Nondegree-seeking		Degree-seeking	
<u>Status</u>	<u>Credit Hours</u>	<u>Status</u>	<u>Credit Hours</u>
Full	12	Full	6
Half	6	Half	3
LTHT*	less than 6	LTHT*	less than 3

* LTHT = Less Than Half Time

** 4.5 hours applies only to College of Business Administration credit hours.

For students receiving university fellowships, assistantships, and tuition support, see Full-time Enrollment Requirements in the General Graduate Policies section of this catalog.

All Federal loan recipients must enroll at least half-time for each term that a loan is requested (that is, 4.5+ hours in fall/spring; 3+ hours in summer, regardless of classification). The in-school grace and deferment period of the loan remains as long as the student has enrolled at least halftime. Nondegree-seeking students have different requirements and should contact the Office of Student Financial Assistance for specific information.

Students on family insurance policies that require full-time status must take at least 9 hours per semester in the fall and spring terms (6 hours in the summer term) to be considered full time. Students classified as nondegree-seeking must enroll in at least 12 hours of coursework in order to be considered full time.

VA Educational Benefits—For degree and nondegree-seeking students, the VA benefits pay levels for credit hour enrollment are:

Full

Fall and Spring terms	9	Summer term	6
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3/4

Fall and Spring terms	7 or 8	Summer term	4 or 5
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1/2

Fall and Spring terms	6* (4.5 **)	Summer term	3*
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* Tuition and Fee payments apply below these credit hours.

** Applies to College of Business Administration credit hours.

Withdrawal Policy and Academic Record Change Requests

Withdrawals

Withdrawal for each term begins after "Late Registration and Add/Drop" ends. Students may withdraw from a class and receive the notation of "W" until the date noted in the "Academic Calendar" of the *Web Enrollment Guide*. A student may withdraw from courses using myUCF at <https://my.ucf.edu>, or by visiting the Registrar's Office (Millican Hall 161), certain college advising offices, or a Regional Campus records office. Students may withdraw by fax at 407-823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student's identification number, the course(s) to be dropped, and the student's signature. Students also may send a written request to the Registrar's Office by mail (to P.O. Box 160114, Orlando, FL 32816-0114). This letter must be time-stamped or postmarked before the published withdrawal deadline and must include the student's identification number, the course(s) to be dropped, and the student's signature. Students seeking to withdraw in person must sign the request and must provide photo identification. The official date of withdrawal is the date the university receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal.

Withdrawing from classes may have financial aid, NCAA eligibility, or international Visa consequences. Students should seek appropriate advisement prior to withdrawing from a class.

A student is not automatically withdrawn from a class for not attending, nor can an instructor withdraw a student from a class. Upon request, the instructor will provide the student with an assessment of the student's performance in the course prior to the last day of withdrawal.

If a graduate student withdraws from a course while an alleged academically dishonest act is under consideration, and the case is not subsequently resolved in favor of the student, the university reserves the right to assign the appropriate grade for the course.

Late Withdrawals

Withdrawals are not permitted after the deadline except in extraordinary circumstances such as being the primary caretaker of an immediate family member who become seriously ill or injured. Late withdrawal must be requested during the semester in which the withdrawal is sought and as soon as the extraordinary circumstances arise. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Graduate students seeking to petition for a late withdrawal should consult the College of Graduate Studies (MH 230). At the time of the request, the College of Graduate Studies will ascertain from the instructor whether the student was passing or failing the course. If the student was passing, a "WP" will be recorded on the student's permanent record; if failing, a "WF" will be entered. Late withdrawals are for all courses taken in the semester. Students who request a late withdrawal from selective classes must provide a compelling reason and documentation (e.g., my son's radiation treatment was at 9:00 a.m. every day, so I only had to stop attending my 9:00 a.m. class).

Medical Withdrawals

Graduate students who seek a withdrawal because they are ill must apply for a medical withdrawal. A medical withdrawal is considered if the student is unable to complete the semester due to a serious mental or physical medical condition. A medical withdrawal applies to all classes taken that semester. Students who request a medical withdrawal from selective classes must provide a compelling reason and documentation.

The student's medical provider(s) will need to provide appropriate medical documentation using the form provide by the College of Graduate Studies. The medical provider must confirm that the illness was such a severity or duration to preclude the completion of the course(s). The medical condition should have arisen during the given semester from which the withdrawal is sought. If the student was aware of the medical condition prior to the beginning of the semester, he/she must provide medical documentation demonstrating that there was a change in the condition during the semester that resulted in an inability to meet course requirements.

If a medical withdrawal is approved, a "WM" will be recorded for each course. A "WM" grade has no effect on your GPA. Graduate students who receive a medical withdrawal may be placed on hold until the university can determine that the student is ready to return.

A medical withdrawal should be submitted as soon as is possible when the medical condition arises. If the student's medical condition does not permit the student to submit the withdrawal request during the semester in which the medical withdrawal is sought, the student has up to six months following the end of the semester to submit for approval and to qualify for a tuition refund.

Late Drops

Graduate students with circumstances determined by the university to be exceptional and beyond their control may apply for a cancellation of enrollment and the elimination of fee liability. Exceptional circumstances include, but are not limited to the death of an immediate family member, involuntary call to military service, or an administrative error created by the university. A late drop is for all classes taken that semester. Graduate students must submit a petition and all supporting documentation for a late drop of courses to the College of Graduate Studies (Millican Hall 230; 407-823-2766) within six months of the end of the semester for which the late drop is sought. If approved, a late drop will result in a full refund of tuition and the complete removal of the courses from the academic record.

Late Adds

A late add is considered when a student is unable to add a course(s) by the add deadline as outlined in the Academic Calendar. It is reserved for an unavoidable delay in adding a class or an administrative error in the registration process or advising. A late add can be requested by either a student or a program representative on behalf of a student. A late

aid is not approved beyond the second week of classes unless there are well-documented extenuating circumstances and instructor approval.

Financial Support

Graduate students who will be supported on assistantships should contact their hiring department to see that their assistantship agreement and other hiring documents are completed. Paychecks are delayed when these arrangements are not made prior to the beginning of the semester. All graduate students who are receiving fellowships should register as early as possible so that payment arrangements can be made by the UCF College of Graduate Studies.

Student Responsibility to Inform Offices

All graduate students who have financial aid, or who need financial support in order to attend UCF, should be sure to inform all appropriate offices of all changes in financial status. Remember to inform the departmental office, the Office of Student Financial Assistance, and the UCF College of Graduate Studies of all changes related to enrollment, graduate status, or financial support.

Parking

All vehicles parked on campus, including evening students' vehicles, must be registered with the Parking Services Office and display the appropriate permit or decal. Parking Services offers assistance to motorists, including battery jump-starts and unlocking car doors. For more information see the Parking Services website.

Visitor Information Center

To park on campus without a decal, purchase a daily permit at the Visitor Information Center across from the Progress Energy University Welcome Center or from the pay-and-display machines on campus. Daily permits are valid only in student lots. Meters are also available in selected locations.

Policies

The policies in this section of the *Graduate Catalog* are minimum university-wide standards for graduate programs. The Graduate Programs section in this catalog describes additional requirements for each graduate program. Also, student program handbooks for each of the graduate programs provide additional policies and procedures that are specific to each graduate program.

- General University Policies
- General Graduate Policies
- International Graduate Student Policies
- Graduate Certificate Program Policies
- Master's Program Policies
- Education Specialist Programs
- Doctoral Program Policies

General University Policies

Classroom Responsibility

Students are responsible for maintaining classroom decorum appropriate to the educational environment. When the conduct of a student or group of students varies from acceptable standards and becomes disruptive to normal classroom procedures, the instructor has the authority to remove the offending party from the room and refer the student to the Office of Student Conduct (SRC 155) for disciplinary action.

Student Conduct

Students are subject to federal and state laws and local ordinances as well as regulations prescribed by the University of Central Florida and the Florida Board of Governors. The breach or violation of any of these laws or regulations may result in disciplinary action. Behavioral breaches of state law, UCF requirements, or program expectations are grounds for dismissal from the program of study and the university. Detailed conduct regulations and procedures are presented in *The Golden Rule* (www.goldenrule.sdes.ucf.edu).

A person applying for admission to UCF who has declared an adjudication of a violation of conduct policies at a previous college or university or a violation of the law that resulted in probation, community service, a jail sentence, or the revocation or suspension of their driver's license (including traffic violations that resulted in a fine of \$200 or more) will have circumstances of the case reviewed by the Office of Student Conduct (SRC 155) to consider eligibility for admission.

Credit Hour Policy

Credit hour: A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than

(1) One hour of classroom or direct faculty instruction and a minimum of two hours of out of class student work each week for approximately fifteen weeks for one semester or the equivalent amount of work over a different amount of time; or

(2) At least an equivalent amount of work as required in paragraph (1) of this definition for academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

Religious Observances

It is the policy of the University of Central Florida to reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. A student who desires to observe a religious holy day of his or her religious faith will notify all of his/her instructors and be excused from classes to observe the religious holy day.

The student will be held responsible for any material covered during the excused absence but will be permitted a reasonable amount of time to complete any work missed. Where practicable, major examinations, major assignments, and university ceremonies will not be scheduled on a major religious holy day.

Students who are absent from academic or social activities because of religious observances will not be penalized. A student who believes that he/she has been unreasonably denied an educational benefit due to his/her religious belief or practices may seek redress under the Student Grievance Procedure, located in *The Golden Rule*.

University Closings

In the event of some extraordinary event (such as a natural disaster or prolonged power outage), the President shall determine whether it is necessary to cancel classes and approve administrative leave for employees in affected areas. Department chairs, in consultation with their faculty and with the college dean, shall determine the effect on final examinations and other academic matters.

Non-Discrimination Policy

The University of Central Florida does not unlawfully discriminate in any of its education or employment programs and activities on the basis of an individual's race, color, ethnicity, national origin, religion (or non-religion), age, genetic information, sex (including pregnancy and parental status), gender identity or expression, sexual orientation, marital status, physical or mental disability (including learning and intellectual disabilities), political affiliations, prior conviction of a crime, protected veteran's status or membership in any other protected classes as set forth in state or federal law. The University prohibits discrimination based on these protected classes, which includes the prohibition of discriminatory harassment, sexual assault, sexual exploitation, relationship violence, stalking, sexual or gender-based harassment, and retaliation against a person for the good faith reporting of any of these forms of conduct or participation in or party to any investigation or proceeding related to a report of these forms of conduct.

Discriminatory harassment consists of verbal, physical, electronic or other conduct based upon an individual's protected class as set forth above that interferes with that individual's educational or employment opportunities, participation in a University program or activity, or receipt of legitimately-requested services under either *Hostile Environment Harassment* or *Quid Pro Quo Harassment*. *Hostile Environment Harassment* is discriminatory harassment that is so severe, persistent or pervasive that it unreasonably interferes with, limits, deprives, or alters the conditions of education (e.g., admission, academic standing, grades, assignment); employment (e.g., hiring, advancement, assignment); or participation in a University program or activity (e.g., campus housing), when viewed from both a subjective and objective perspective. *Quid Pro Quo Harassment* is discriminatory harassment where submission to or rejection of unwelcome conduct is used, explicitly or implicitly, as the basis for decisions affecting an individual's education; employment; or participation in a University program or activity.

Sexual harassment is any unwelcome sexual advance, request for sexual favors, or other unwanted conduct of a sexual nature, whether verbal, non-verbal, graphic, physical or otherwise, when the conditions for *Hostile Environment Harassment* or *Quid Pro Quo Harassment* are present. Gender-based harassment includes harassment based on gender, sexual orientation, gender identity, or gender expression, which may include acts of aggression, intimidation, or hostility, whether verbal or non-verbal, graphic, physical, or otherwise, even if the acts do not involve conduct of a sexual nature, when the conditions for *Hostile Environment Harassment* or *Quid Pro Quo Harassment* are present. Sexual assault consists of sexual contact and/or sexual intercourse that occurs without consent. Sexual exploitation is purposely or knowingly doing or attempting to do any of the following: recording or photographing private sexual activity and/or a person's intimate parts (including genitalia, groin, breasts or buttocks) without consent; disseminating or posting images of private sexual activity and/or a person's intimate parts (including genitalia, groin, breasts or buttocks) without consent; allowing third parties to observe private sexual activity from a hidden location (e.g., closet) or through electronic means (e.g., Skype or live streaming of images); subjecting another person to human trafficking; or exposing another person to a sexually transmitted infection or virus without the other's knowledge. Relationship violence includes any act of violence or threatened act of violence that occurs between individuals who are involved or have been involved in a sexual, dating, spousal, domestic, or other intimate relationship. Stalking occurs when a person engages in a course of conduct directed at a specific person under circumstances that would cause a reasonable person to fear for the person's safety or the safety of others, or to experience substantial emotional distress.

A student or employee determined by the University to have committed an act of discrimination as described above is subject to disciplinary action, up to and including permanent separation from the University. Third Parties who commit

these acts may have their relationships with the University terminated and/or their privileges of being on University premises withdrawn.

Most University faculty and staff (including professors, lecturers, instructors, academic advisors, trainers coaches, and resident assistants) are not confidential employees and are required to immediately report to the University's Title IX Coordinator (Dawn Welkie) all relevant details (obtained directly or indirectly) about an incident of sexual assault, relationship violence and/or stalking that involves any student. Confidential employees (including Health Services employees, Counseling and Mental Health Services employees, Ombuds Office employees, Student Legal Services employees and Victim Services employees) are not required to make these reports and will not disclose information without the permission of the student (subject to limited exceptions). More information about UCF's resources and reporting options for individuals who have experienced sexual harassment (including sexual violence) and related policies can be found at <https://letsbeclear.ucf.edu/>.

Employees, students, contractors, vendors, visitors, guests or third parties may obtain further information on this policy, including grievance procedures, from the Office of Equal Opportunity and Affirmative Action Programs (EOAA). Nancy Myers (EOAA Director) is responsible for the University's response to all forms of discrimination based on a protected class, and Dawn Welkie (EOAA Assistant Director) is the Title IX Coordinator who is responsible for the University's response to reports of sex discrimination. For more information about EOAA, please visit EOAA's website at www.eeo.ucf.edu or call 407-UCF-1EEO.

Sexual Harassment Policy

The University of Central Florida values diversity in the campus community. Accordingly, discrimination on the basis of race, sex, national origin, religion, age, disability, marital status, parental status, veteran's status, sexual orientation, or genetic information is prohibited.

Sexual harassment, a form of sex discrimination, is defined as unwelcome sexual advances, requests for sexual favors, or verbal or physical conduct of a sexual nature when:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or enrollment;
- Submission to or rejection of such conduct by an individual is used as the basis for employment or enrollment decisions affecting such individual; or
- Such conduct has the purpose or effect of substantially interfering with an individual's work performance or enrollment, or creating an intimidating, hostile, or offensive working or academic environment.

Sexual harassment is strictly prohibited. Occurrences will be dealt with in accordance with the guidelines above and university rules. Employees, students, or applicants for employment or admission may obtain further information on this policy, including grievance procedures, from the Equity Coordinator. The Director of the Office of Equal Opportunity and Affirmative Action Programs is the campus Equity Coordinator responsible for concerns in all areas of discrimination. The office is located on the main campus, in Millican Hall 330, Orlando, FL 32816-0030. The phone number is 407-UCF-1EEO. Policies and guidelines are available online at <http://www.eeo.ucf.edu>.

Golden Rule

The *Golden Rule* is the university's policy regarding non-academic discipline of students and limited academic grievance procedures for graduate (grade appeals in individual courses, not including thesis and dissertation courses) and undergraduate students. Information concerning *The Golden Rule* can be found at www.goldenrule.sdes.ucf.edu/. Section 11, "Student Academic Behavior," addresses appeals of graduate program actions or decisions.

University Notices

This catalog contains a description of the various policies, academic programs, degree requirements, course offerings, and related matters intended to be in effect at the University of Central Florida during the 2019 - 2020 academic year. However, any matter described in this catalog is subject to change. As a result, statements in this Graduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida, or as an irrevocable commitment from the University to the reader.

Drug-Free Workplace/Drug-Free Schools Policy Statement

Standards of conduct and disciplinary sanctions will be imposed for the unlawful possession, misuse or distribution of illicit drugs and alcohol by UCF students and employees on UCF property or as part of any of its activities. The unlawful manufacture, distribution, dispensation, possession or misuse of a controlled substance, prescription medication or the unlawful possession and use of alcohol is harmful and prohibited in and on UCF owned and controlled property or as part of any of its activities. Any UCF employee or student determined to have violated this policy shall be subject to disciplinary action for misconduct, an action which may include termination/expulsion and referral for prosecution. No employee/student is to report to work/class or attend any university activity while under the influence of illegal drugs or alcohol. Violation of these policies by an employee/student will be the reason for evaluation/treatment for drug/alcohol disorder and/or for disciplinary action up to and including termination/expulsion and/or referral for prosecution consistent with local, state and federal law.

Academic Behavior Standards

The University of Central Florida is committed to a policy of honesty in academic affairs. Examples of conduct for which students may be subject to academic and/or disciplinary penalties including expulsion are:

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Plagiarism, whereby another's work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.
- Unauthorized assistance: communication to another through written, visual, or oral means. The presentation of material which has not been studied or learned, but rather was obtained solely through someone else's efforts and used as part of an examination, course assignment or project. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Commercial Use of Academic Material: Selling notes, handouts, etc. without authorization or using them for any commercial purpose without the express written permission of the university and the Instructor is a violation of this rule.

NOTE: A student who has assisted another in any of the aforementioned breach of standards shall be considered equally culpable. In cases of cheating or plagiarism, the instructor may take appropriate academic action ranging from loss of credit for a specific assignment, examination, or project to removal from the course with a grade of "F." Additionally, the instructor may request disciplinary action through the Office of Student Rights and Responsibilities as outlined in *The Golden Rule*.

Student Use of Technology

The University of Central Florida expects all students to have ready access to a personal computer and software appropriate to his or her field of study. Students can meet this expectation by purchasing or leasing a computer, sharing a computer with family or roommates, or using a UCF computer lab.

All UCF students should expect to use a personal computer in many university activities, including course work, accessing library information, registering for classes, and e-mailing correspondence to instructors or fellow students. In addition, many UCF courses require the use of the Internet.

The University of Central Florida has developed one of the nation's most advanced campus technology environments, and all UCF students are provided free e-mail accounts and Internet access. Students wishing to acquire a personal computer are strongly advised to consider a laptop equipped with a wireless networking card. Recommended configurations can be found on the university's website at www.cstore.ucf.edu

Student Responsibility for University Communication

UCF uses email as the official means of notifying students of important university business and academic information concerning registration, deadlines, financial assistance, scholarships, student accounts (including tuition and fees), academic progress and problems, and many other critical items for satisfactory completion of a UCF degree program. The university sends all business-related and academic messages to a student's Knights Email address to ensure that there is one repository for that information. Every student must register for, and maintain a Knights Email account at <https://extranet.cst.ucf.edu/kmailselfsvc> and check it regularly to avoid missing important and critical information from the university. Any difficulty with establishing an account or with accessing an established account must be resolved through the UCF Computer Services Service Desk so that a student receives all important messages.

Additionally, each student must have an up-to-date emergency e-mail address and cell phone number by which to be reached in case of a crisis on campus. This emergency contact information will be used only for emergency purposes. Also, both permanent and local mailing addresses must be on the record, so that any physical documents that must be mailed can be delivered.

It is critical that students maintain and regularly check their Knights Email account for official announcements and notifications. Communications sent to the Knights Email address on record will be deemed adequate notice for all university communication, include issues related to academics, finances, registration, parking, and all other matters. The University does not accept responsibility if official communication fails to reach a student who has not registered for, or maintained and checked on a regular basis, their Knights Email account. Please ensure that this information is current and that any changes in contact information are made online through the myUCF portal at <https://my.ucf.edu/>.

Complaint Policy

The University of Central Florida supports the right of students to file grievances, lodge complaints, and make appeals in a safe environment free of fear, retaliation, or other adverse consequence. The university has a number of offices and committees that are responsible for implementing the institution's established procedures for addressing written academic and non-academic student complaints.

In most cases, the recommended strategy for complaints of any nature is to ask the concerned individual to first contact the person or office most directly connected to the issue, unless there are compelling reasons not to do so. If the concerned individual does not want to contact a faculty or staff member directly, he or she begins with the next highest level of authority, which typically is the department chair or director. If the problem or complaint is unresolved or the individual is not satisfied with the resolution, he or she may file a written grievance or appeal. Specific procedures are included in specific sections of this catalog and the Golden Rule.

Records

Student records submitted to the university become the property of the university and cannot be returned to or copied for the student or released to a third party. Student records are digitally scanned.

Family Educational Rights and Privacy Act (FERPA)

The procedures for protecting the confidentiality of student records are based on state regulations and the federal Family Educational Rights and Privacy Act of 1974. FERPA affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 30 days of the day the University receives a written request for access. Students should submit to the University Registrar, dean, head of the academic department, or other appropriate officials, written requests that identify the record(s) they desire to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed;
2. The rights to request the amendment of the student's education records that the student believes are inaccurate or misleading. The student may ask the University to amend a record that he or she believes is inaccurate or misleading. The student should write the University official responsible for the record, clearly identify the part of the record to be changed, and specify why the current record is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing;
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility; and
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by a State University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington DC, 20202-4605.

Directory Info

FERPA authorizes the University to classify certain information concerning students as "directory information," which means that it may be released to anyone upon request. In accordance with Florida Statutes Section 228.093, the University is required to release student directory information to independent vendors upon request. Directory information at UCF includes

- name,
- current mailing address,
- telephone number,
- date of birth,
- major field of study,
- dates of attendance,
- enrollment status,
- degrees and awards received,

- participation in officially registered activities and sports
- athletes' height and weight.

All other student information will be released in accordance with FERPA; in most cases, this requires the student's prior written and signed consent. The University extends to students the opportunity to withhold any or all information, including directory information. Students can do this online at <https://my.ucf.edu> > Student Self Service > Student Center > Personal Information > FERPA/Directory Restriction or complete the Directory Disclosure/Release Authorization form available at the Registrar's Office (Millican Hall 161) or at <https://registrar.ucf.edu/>, requesting that this information be withheld. The Golden Rule outlines the University procedures for confidentiality. For additional information describing FERPA policy, go to the Department of Education Family Policy Compliance Office website.

Higher Education Act

Lists, descriptions, and sources of information required for disclosure under the Higher Education Act may be obtained from the Registrar's Office (Millican Hall 161) or from the Registrar's website (Higher Education Act).

General Graduate Policies

Student Responsibility to Keep Informed

It is the student's responsibility to keep informed of all rules, regulations, and procedures required for graduate studies. Graduate program regulations will not be waived or exceptions granted because students plead ignorance of the regulations or claim failure of the adviser to keep them informed.

Student Responsibility for University Communication

Please refer to the General University Policies regarding student responsibility for communication.

University Admission Standards

The university seeks to enroll students of the highest quality. In addition, the university encourages applications from a diverse population and values diversity in our graduate programs. Admissions recommendations are made by the academic programs on the basis of a wide variety of information submitted as part of the student's application package. Admissions committees consider factors such as students' academic qualifications, research and work experiences, professional goals and skills, match with program objectives and professional qualifications, the number of openings available in the program, and the resources available to support the student. An applicant's character, integrity, and general fitness to practice a particular profession may also be considered in the admission process. Admission is limited and, in most programs, not all qualified students can be admitted. While UCF supports students obtaining multiple UCF degrees at different levels or in different programs, students who have received a degree in a UCF graduate program are not eligible for admission to the same program, even if it has tracks that have substantively different curricula.

In general, graduate admission to the university requires that students must have obtained (prior to the start of the term for which the student is admitted) the equivalent of a baccalaureate degree from an accredited institution recognized by UCF or from a recognized foreign institution. Students without the equivalent of a baccalaureate degree from an accredited institution recognized by UCF or a recognized foreign institution are not admitted to graduate degree

programs, graduate certificate programs, or graduate non-degree status. All applicants for graduate admission must submit official transcripts for all academic work. In addition to the above, all admitted students must submit evidence to document their attainment of the following minimum requirements.

Minimum UCF Requirement

1. This regulation applies to all students admitted to graduate programs.
2. Each admitted student to a graduate degree program or to a postbaccalaureate professional program must meet the following minimum requirements:
 - a. Earned a bachelor's degree or equivalent from an accredited U.S. institution recognized by UCF or its equivalent from a foreign institution AND
 - b. Earned a 3.0 GPA (or equivalent) or better in all work attempted while registered as an undergraduate student working for a baccalaureate degree, OR
 - c. Earned a 3.0 GPA (or equivalent) or better in all work attempted while registered as an upper-division student working for a baccalaureate degree. OR
 - d. Earned a previous graduate degree or professional degree or equivalent from an accredited U.S. institution recognized by UCF or its equivalent from a foreign institution in a field related to the discipline of the program to which the applicant is applying.
3. Additionally, all applicants to doctoral programs must meet the following specific requirements:
 - a. Each applicant to a doctoral degree program shall present scores that are acceptable for the program to which the student is applying on the Graduate Record Examination (verbal, quantitative, and writing), or an equivalent measure on the GMAT, whichever is deemed most appropriate to the program. Students, including international students, who already have a graduate degree obtained from an accredited institution recognized by UCF in the same or in a related area are not required to take the Graduate Record Examination or GMAT unless it is required by the program.
 - b. In addition, doctoral applicants must submit three letters of recommendation, a resume or a curriculum vitae, and a written essay.
 - c. The submitted materials must be used in the context of a holistic credential review process.
 - d. Each doctoral program may determine other requirements for admission, consistent with their mission and purpose. Any additional admissions requirements so imposed by doctoral programs must be published annually in the Graduate Catalog and on the website of the doctoral program; further, such requirements shall be reviewed and updated annually.
 - e. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
4. Additionally, all applicants to master's programs must meet the following specific requirements:
 - a. A score on standardized exams such as the GRE or GMAT is not required by the university for admission to a master's degree program, although individual programs may still require the exams for admissions purposes.
 - b. Each master's program may determine other requirements for admission, consistent with their mission and purpose. Any additional admissions requirements so imposed by master's programs must be published annually in the Graduate Catalog and on the website of the master's program; further, such requirements shall be reviewed and updated annually.
 - c. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
 - d. For international students in master's programs that do not require a GRE or GMAT, a course-by-course evaluation of the student's official transcript must be submitted by a credential evaluation service recommended by UCF that shows a GPA equivalent from an earned degree equivalent to a U.S. bachelor's degree.
5. In addition to the above requirements, international students must show proficiency in written and spoken English by
 - a. proving they are from a country where English is the only official language; or
 - b. establishing that a prior bachelor's, master's or doctoral degree was earned from an accredited college or university in the United States recognized by UCF; or

- c. establishing that a prior bachelor's, master's or doctoral degree was earned from a country where English is the only official language or a university at which English is the only official language of instruction; or
- d. submitting a qualifying score on the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS). Qualifying scores are a TOEFL computer-based score of 220; a TOEFL internet-based score of 80 (or equivalent score on the paper-based test); or an IELTS score of 6.5. Specific programs may establish higher scores for qualification, and such information must be included in the Graduate Catalog and program website information for that specific program.

Students who are non-native speakers of English (and do not have a degree from a U.S. institution) must pass the SPEAK exam administered by the UCF Center for Multilingual Multicultural Studies before they will be permitted to teach as a Graduate Teaching Associate or Graduate Teaching Assistant.

- 6. Exceptions to the above requirements:
 - a. In any academic term, up to 20 percent of the graduate students may be admitted in a given degree program as exceptions to the minimum requirements for graduate admissions as defined in (2).
 - b. Students who do not meet the admissions criteria and who wish to enroll in courses but not degree programs at the postbaccalaureate level may enroll under the classification of nondegree-seeking students. Graduate programs wishing to admit these students to graduate degree programs after the students have satisfactorily completed up to nine hours of graduate coursework may do so provided that the number so admitted is included as part of the 20 percent exception, as defined in paragraph 6(a) above.
 - c. It is noted that due to federal regulations around international student visas 8 CFR 214.3(k), the College of Graduate Studies will only admit international graduate students in a degree program under the Graduate Status-Regular and must meet all relevant admission criteria under this status.
- 7. Applicants may appeal an admissions decision by following the university admissions appeal procedure. Information regarding this procedure is available in the Admissions section in the Graduate Catalog.

Student Admissions Classifications

Students may be admitted into graduate status in the categories defined below. Classifications within a graduate status may be viewed in the Admissions section of the catalog.

Degree-seeking Students

A degree-seeking student is a student who has been formally admitted into a master's, specialist, or doctoral program.

Graduate Certificate Students

Students who have applied to and been accepted into a graduate certificate program are classified as graduate certificate students. Graduate certificate students who subsequently apply to and are accepted into a graduate degree program may, at the discretion of the program adviser, transfer the credit hours from one earned graduate certificate program into a graduate degree program.

Nondegree Students

Students are classified in nondegree status if they have not applied to and been accepted into a graduate degree or certificate program. Some students in this status are completing application requirements for a graduate program. Courses taken prior to acceptance to a degree program may be used to fulfill degree program requirements as transfer credits only with the approval of the program director. There are strict transfer credit limits – please see the transfer credit policy (link) and consult with the specific program director.

Program of Study

A Program of Study is a listing of coursework agreed to by the student and the degree program specifying course degree requirements. A specific Program of Study, which may vary from student to student, must be formulated jointly by the student and the appropriate committee or adviser in the program area and approved by the college. A Program of Study form can be obtained from the graduate program director. This form should be prepared and signed by the adviser and student, then given to the graduate program director for review and filing in the student's permanent file. It must comply with the student's relevant catalog.

Programs of Study for students seeking a master's or specialist degree should be on file with the College of Graduate Studies by the end of the student's second major term (based on full-time enrollment) and must be on file by the end of the term prior to the term of expected graduation. Programs of Study for students seeking a doctoral degree should be on file with the College of Graduate Studies by the end of the third major term of enrollment (based on full-time enrollment) and must be on file prior to the change to candidacy status.

All graduate programs of study must include independent learning as part of course and other assignments. This may be accomplished by research papers and reports, evidence of reflective learning in individual portfolios, creation of original works, and/or demonstration of integration of knowledge as part of coursework in a capstone course and other requirements for the degree.

The student and his/her advisory committee may make changes in the program of study at any time with the approval of the graduate program director. However, once established, the program of study cannot be altered solely due to the poor academic performance of the student.

Course Category Definitions

(Please see specific policies under Master's degree and Doctoral degree program requirements for the proper use of hours that can be applied to degrees.)

In an effort to establish a balance among the essential components of graduate degrees, the 2008-2009 Policy Committee of the Graduate Council categorized the wide variety of graduate courses offered at UCF into the three essential components of graduate education: (1) formal course work; (2) research and independent scholarly work; and (3) disciplinary training. While many courses offer a combination of these elements of graduate education, most can be classified as predominantly addressing one of these components. The following definitions were established to help establish a common vocabulary for this categorization.

- **"Courses"** – All enrollment hours with an official class number.
- **Core/Required courses** – Courses that cover a certain body of knowledge that is central to a program of study. These courses must be taken to fulfill degree requirements, and may only be substituted by equivalent coursework.
- **Elective courses** – Courses that cover a certain body of knowledge that is important, but optional for a program of study.

Formal Course Work

- **Formal courses** – Existing UCF courses that involve standard class instruction of a defined body of disciplinary knowledge. These courses involve interactions between a formal course instructor and the students that make up the class and can be traditional, face-to-face courses, web courses, and media-enhanced courses. Such classes include both core/required courses as well as elective courses, seminar courses and independent study courses (XXX 6908), but are distinguished from the various categories of individualized research and scholarly courses.
- **Independent Study (XXX 6908)** – A course of study created outside of the standard-format formal courses offered by the university. Independent Study must have a formally defined core of knowledge to be learned by the student(s). The core of knowledge to be learned by the student(s) must be specified in written form and approved by the student(s), the instructor, and the program coordinator prior to enrollment in Independent Study.

Research and Scholarly Work

- **Directed Research (XXX 6918, XXX 5917)** – Graduate-level research/scholarly work. Research hours are taken at the graduate level. These can include laboratory rotations in addition to standard research and scholarly endeavors directed toward completion of a project.
- **Doctoral Research (XXX 7919)** – Doctoral-level research/scholarly work. Research hours at the doctoral level taken prior to passing candidacy. These can include laboratory rotations, preparation for candidacy exams, or standard research and scholarly endeavors directed toward completion of a project or a dissertation.
- **Doctoral Dissertation (XXX 7980)** – Research or scholarly hours taken after advancement to candidacy and directed toward completion of a dissertation.
- **Thesis (XXX 6971, XXX 6973)** – Research hours directed toward completion of a thesis.
- **Research Report (XXX 6909)**

Satisfactory (S) or unsatisfactory (U) grades are used to reflect student progress in these research and scholarly work courses. Other grades may not be assigned in these courses. Should a student in a given term be given an incomplete (I), then this grade should be changed to an S or U upon completion of the work. Students who do not maintain satisfactory progress in their research, as determined by their thesis or dissertation advisory committee, may be placed on probation or dismissed should unsatisfactory progress continue.

Disciplinary Training

- **Internships (XXX 6946)** – Courses that provide training experiences for students in their discipline. It is not a "formal course," but maybe a required element of some programs.
- **Practica and Clinical Practice (XXX 5944 or XXX 6946)**

Graduate programs must select the grading scale for these disciplinary training courses to be either on an A–F or Satisfactory (S)/Unsatisfactory (U) scale, but not both in any one section.

Grade System

The university uses an alphabetic system to identify student grades and other actions regarding student progress or class attendance. This system, with a grade point equivalent per semester hour, is as follows:

Grades	Grade Points Per Semester Hour of Credit
A	4.00

A-	3.75
B+	3.25
B	3.00
B-	2.75
C+	2.25
C	2.00
C-	1.75
D+	1.25
D	1.00
D-	0.75
F	0.00
NC	No Credit*

* Available only in CHM 1032, CHM 2045C, CHS 1440, ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, MAC 1140, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014C. In these classes, NC replaces the use of D+, D, and D-.

Other Actions

I	Incomplete
N	No grade reported by the instructor
R*	(followed by grade) Repeated course (Grade Forgiveness)
S	Satisfactory (with credit)/Satisfactory Progress (Research, Thesis, or Dissertation)
T*	(followed by grade) Subsequently repeated (no credit)
U	Unsatisfactory (no credit)
W	Withdrawn
WF	Withdrawn Failing
WH	Health Form Withdrawal
WM	Medical Withdrawal
WP	Withdrawn Passing
X	Audit (no credit)

* "R" and "T" actions only apply to undergraduates.

The designation of "N" will be temporarily assigned by the Registrar's Office only in the case when a grade has not been submitted by the faculty by the "grades due" deadline. The designator will be replaced by the earned letter grade at the earliest opportunity in the semester that immediately follows. The "N" designator may not be assigned by faculty.

Grade changes other than medical withdrawals will be considered only during the semester immediately following the one in which the grade was assigned, except that grades assigned during the spring semester may be changed during either the following summer term or fall semester. A change in grade must be approved by the dean of the college or school. If an academic action such as dismissal or probation has been taken by the university before a grade change, the action will remain in effect regardless of the grade change. A grade will not be changed after a degree has been conferred.

Course Requirements

Course Levels of Graduate Work

7000-Level Courses—courses for doctoral students. Master's and nondegree students may enroll in 7000-level courses with permission from the program.

6000-Level Courses—courses for graduate students. Nondegree students should check with the colleges about their ability to enroll in 6000-level courses. Students in accelerated undergraduate/graduate programs should check with their academic adviser before registering for 6000-level courses. Undergraduate registration in 6000-level courses is allowed only in special situations with prior approval by the college. Undergraduate students must be within nine hours of graduation, have a minimum 3.0 GPA, and not register for more than a total of twelve hours in that term. See also the catalog section on Senior Scholars.

5000-Level Courses—courses for graduate students. Nondegree students and seniors may enroll in 5000-level courses with permission from the program.

Zero Credit Courses

Zero credit hour courses, by definition, have no impact on the overall program hours and should not be used to add fundamental discipline content. A zero credit hour course must not exceed the expected time commitment associated with one credit hour, that is, the amount of work "that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately fifteen weeks for one semester ... or the equivalent amount of work over a different amount of time" (SACSCOC Credit Hours Policy Statement). A zero credit hour course can include laboratory work, internships, practica, studio work, and other academic work.

Split-Level Classes

Although generally discouraged, UCF allows departments to offer split-level undergraduate and/or graduate classes. In such cases, two courses approved for different levels of instruction (e.g., a 4000- and 5000-level course) are offered together in the same room, at the same time, and with the same instructor, but under two different course numbers. In limited cases, classes taught in split-level format may comprise undergraduate and graduate level courses. In general, split-level classes are restricted to situations where the enrollment in one of the courses would be insufficient to allow the course to be offered on a stand-alone basis. When such split-level classes are scheduled, the following conditions must be maintained:

- Both the graduate and the undergraduate courses must have been approved previously through the established university process for approving courses so that there are two separate and complete syllabi for each course, and the syllabi clearly demonstrate more advanced subject matter and expectations for the graduate course than the undergraduate course. The graduate course documents submitted for approval must indicate that the course will be offered in a split-level format.
- Graduate split-level classes must only be assigned to faculty members who meet the university-wide minimum qualifications for teaching graduate-level courses.
- Courses may not be combined into a split-level class if the course numbers of the two courses are more than one level apart. For example, 4000- and 5000-level courses may be combined into a split-level class; 4000-level courses may not be combined with 6000-level courses.
- Students may not take both the undergraduate and graduate levels of a split-level course for credit, except in the case of performance and seminar classes, which can be taken for credit multiple times. Graduate students must take the graduate level of a split-level course for it to count toward fulfilling graduate program requirements.
- The graduate and undergraduate courses must have distinct requirements and performance expectations. Graduate students must have course requirements or assignments that require more in-depth analysis and understanding of the topics, provide broader coverage of the content area, demonstrate higher knowledge and skills, and/or show greater independence of thought and application of concepts than what is typically required of undergraduate students. The level and amount of learning by graduate students must be equivalent to what is typically expected in 5000-level or higher courses. The different requirements and expectations must be spelled out clearly in the course syllabi for the respective courses.
- Documentation of split-level class offerings must be maintained in the dean's office of the academic college, in expectation of future audits. Copies of both syllabi must be provided to the Undergraduate and Graduate Deans for all classes offered in a split-level format

Language Requirements

Foreign language requirements shall be at the option of the individual departments or appropriate units consistent with their college regulations.

Credit by Examination or Waiver

Students who believe they have mastered the content of a graduate-level course should present a portfolio to the graduate program director documenting the learning experience. If the committee, after examining the portfolio, believes the student has mastered the content presented in a graduate-level course, the student should be allowed to demonstrate that mastery through examination. Examination credit may be used to satisfy program course requirements, but not credit hour requirements.

Correspondence courses are not acceptable toward a graduate program of study; however, credit-bearing extension or continuing education courses may be accepted. The acceptance of courses from unaccredited agencies or institutions threatens the integrity and value of the graduate degrees awarded by UCF. Graduate-level coursework demands the mastery of skills, theories, and concepts at a much higher level than undergraduate-level coursework. Therefore, the university will not allow students to transfer coursework from professional societies, independent agencies, employees, or companies unless they are ACE (American Council on Education) certified.

Full-time Enrollment Requirements

A full-time degree-seeking graduate student must take at least 9 credit hours in the fall and spring semesters. A half-time load is defined as enrolled in at least 4.5 credit hours in fall and spring terms. During the summer term, full-time is 6 credit hours and half-time is 3 credit hours. There are two exceptions to this policy:

1. For master's students pursuing a thesis option, full-time enrollment is defined as 3 hours per semester [including summers, of only thesis hours (XXX 6971)], after completion of all coursework and until successful completion and defense of the thesis. Students enrolled in thesis hours simultaneously with coursework hours must be enrolled in a combined nine credit hours to be considered full time for the fall and spring semesters, or six credit hours to be enrolled full time in the summer semester.
2. For doctoral students who have passed the candidacy exam and are registered for doctoral dissertation (XXX 7980) hours only, full-time is 3 hours per semester, including summers, until successful completion and defense of the dissertation.

Special Considerations

One exception to this policy is for students pursuing the Clinical Psychology PhD program that requires a 12-month, full-time pre-doctoral internship (CLP 6949) in which registration for one hour per semester (for a total of three semesters) is also defined as full-time.

All international students on F or J visas must maintain full-time, degree-seeking status regardless of financial support received from the university. F and J visa holders should contact the UCF Global to ensure that their enrollment conforms to the full-time definition for their visa status. International students should not change their course schedule or drop classes without advisement from the UCF Global. All international students who enroll in less than 9 hours per term must submit to UCF Global a Reduced Course Load Form that explains the nature of the reduced hours and must obtain approval from UCF Global (see <https://global.ucf.edu/> for Reduced Course Load Form). This requirement also applies to international students who are enrolled in less than 9 hours per term in thesis or dissertation hours.

Students who receive financial support from outside UCF and who have loan obligations are responsible for enrolling in the number of credit hours that meet the full-time or half-time criteria specified by the funding source. Enrollment certification is provided by the Registrar's Office based upon the UCF definition of full-time graduate status.

Students who do not satisfy these full-time enrollment requirements may have to start repaying student loans and will not qualify for graduate assistantships, fellowships or tuition support. Students receiving financial aid should refer to the Program Eligibility Charts on the Office of Student Financial Assistance website (<http://finaid.ucf.edu>) under "Receiving Aid" to determine their specific enrollment requirements.

Students receiving veterans benefits should contact Veteran's Affairs for additional information about course loads.

Nondegree-seeking students must be enrolled in 12 credit hours or more to be considered in full-time status.

Dual Degree Shared Credit Policy

The following policies apply to course credits that are counted toward fulfilling the requirements in two degree programs (dual degree shared credit). These policies do not extend to certificate programs. Policies governing credits shared between two certificate programs or between degree programs and certificate programs can be found under either the Graduate Certificate Program Policies or the Master's or the Doctoral Transfer Credit Policies.

The following policies serve to supplement and extend the shared credit policies that can be found in the existing Master's and Doctoral Transfer Credit Policies.

General Limit to Use of Credits for More Than One Degree

No credit hours may be counted for more than two degree programs.

Accelerated Bachelor's/Master's Programs

- Accelerated Bachelor's/Master's programs have a limit of 9 SCH shared credit for graduate degrees requiring up to 36 credit hours. For graduate degrees requiring more than 36 credit hours, accelerated Bachelor's/Master's programs have a limit of 12 SCH shared credit. Proposals for accelerated Bachelor's/Master's programs must include a strong curricular rationale that can support the streamlining of credit requirements in the two degrees.
- Shared credit is limited to formal course work, exclusive of independent study. Grades below a B- are not acceptable to fulfill Master's degree requirements if taken while in undergraduate status.
- Only outstanding students may enter accelerated Bachelor's/Master's programs (explicit requirements may be specified by the graduate program). All students in these programs must have met the undergraduate general education requirements. Students must apply and be formally admitted to the master's program following receipt of the bachelor's degree.
- Accelerated Bachelor's/Master's programs must be approved by the Graduate Council Curriculum Committee. Such programs must not unduly delay the completion of the bachelor's degree nor limit the breadth of the student's undergraduate experience.

Dual Degree Programs

Definition

Dual degree programs lead to two different degree citations on the transcript and two separate diplomas. These may combine master's programs, doctoral programs, and professional degree programs. The purpose of a dual degree program is to allow students to undertake complementary programs of graduate study simultaneously through streamlined curricular arrangements that allow dual credit for a specified set of courses.

Approval

Dual degree programs must be approved by the Graduate Council Curriculum Committee; individualized dual degree programs for specific students are not allowed. Proposals for all dual degree programs must include a strong curricular rationale that can support the streamlining of credit requirements in the two degrees. Dual degree programs that include a new degree program as one of the component degrees must instead be approved by the Graduate Council Program Review Committee.

Shared Credit Limit

A minimum of 50% of required credit hours must be unique to each degree and cannot be used for dual credit. Departments and programs may impose more stringent shared credit limits, but may not exceed the university limit.

Student Admission

Students may be admitted directly to a dual degree program. Upon admission, the Graduate School will place an indicator on the student's record to activate the second program of the dual degree option prior to the completion of 18 SCH in the first program. No admissions requirements established by the Graduate School or by either individual program may be waived. For example, if one dual degree program requires acceptable scores for the GRE and the other does not require it, the applicant must take the standardized exam to be considered for admission to both degrees. International students must contact the UCF Global prior to applying to a dual degree program. Students that apply to the regular program without the dual degree option and later become interested in the dual degree option must contact the dual degree program director prior to completing 18 SCH in the regular program.

Academic Requirements

Formal proposals for dual degree programs must include -

1. a clear rationale for specifying whether joint or distinct documents can satisfy the thesis/dissertation or capstone requirements for each of the component programs;
2. a clear rationale for specifying whether joint or distinct examinations can satisfy the requirements for each of the component programs; and
3. specifications concerning the composition of the advisory committee, with representation from both programs.

All students must have two co-advisors, with one from each program.

Should a student fail to make satisfactory academic progress and be placed on probation, the student should consult with both advisors about the future course of action. Please refer to the section on Academic Progress and Performance for options for students who are dismissed as a result of unsatisfactory academic performance. Please note that students dismissed from a dual degree program may only pursue retention and readmission options with one of the degree programs and may not be retained in or readmitted into the dual-degree program.

Student Financial Support

Formal proposals for dual degree programs must include a clear structure for the financial arrangements for supported students.

Other Policies

- All standard policies apply.
- The graduate status GPA minimum must be met for both programs.
- Students enrolled in dual degree programs must have both degrees conferred simultaneously. No dual degrees will be awarded retroactively.
- Dual degree proposals must include statements concerning the handling of grievances, intellectual property issues, and the assigning of teaching "credit" and fees.

Limited Nondegree Students Enrolling in Graduate Classes

All students who wish to enroll as limited nondegree students at the graduate level will be accepted as nondegree-seeking students at the graduate level. Students wishing to enroll should complete the online graduate application, pay the application fee, provide transcripts from previous institutions, and complete residency forms.

The UCF College of Graduate Studies will make available the nondegree graduate application form to those faculty who are meeting classes for the first time at an off-campus site or regional campus; those faculty should collect the appropriate information and forms. These materials should be returned directly to the UCF College of Graduate Studies, where they will be processed and students will be registered.

Students will be placed on hold for the following semester's registration, awaiting the transcript from a previous institution that verifies the bachelor's degree.

Academic Progress and Performance

Review of Academic Performance

The primary responsibility for monitoring academic performance standards rests with the degree or certificate program. However, the academic college and the UCF College of Graduate Studies will monitor a student's progress and may dismiss any student if performance standards or academic progress as specified by the program, college or university are not maintained. Satisfactory academic performance in a program includes maintaining at least a 3.0 graduate status GPA (defined below) in all graduate work taken since admission into the program. Satisfactory performance also involves maintaining the standards of academic progress and professional integrity expected in a particular discipline or program. Failure to maintain these standards may result in dismissal of the student from the program.

Graduate Status GPA

A graduate status GPA will be calculated based on the graduate courses taken at UCF since admission into each degree or certificate program. The graduate status GPA is used to monitor the student's progress in the program. The university requires that students must maintain a graduate status GPA of at least 3.0 or higher in order to maintain regular graduate student status, receive financial assistance, and qualify for graduation. This GPA requirement cannot be waived.

In addition, a graduate status GPA will be calculated for nondegree students based on graduate courses taken at UCF while in nondegree status. However, nondegree students' academic standing will not be monitored as it relates to the probationary status or dismissal as outlined below.

Please note that the graduate status GPA does not carry forward from one program to another or from nondegree status into a degree or certificate program.

Probationary Status and Dismissal - Students in a Degree or Certificate Program

Students whose graduate status GPA falls below 2.0 will be immediately dismissed from the university. Dismissed students are not allowed to enroll in courses unless they are readmitted either to a graduate program or as a nondegree student.

Students whose graduate status GPA drops below 3.0 but remains above 2.0 will be automatically changed to academic probationary status by the College of Graduate Studies. Unsatisfactory performance may also be indicated by a "U" grade in graduate course work. Under such circumstances, the program may elect to place the student on academic probation.

Students will receive a notice of probation at the beginning of the probation period, and the notice of probation will be imprinted on the student's advising transcript. Students have up to nine credit hours of letter-graded course work (graded A-F) to attain a graduate status GPA of 3.0 or higher, at which point they will be removed from probationary status. If the student has not attained a graduate status GPA of 3.0 at the end of the probationary nine credit hours, he/she will be dismissed from the graduate program. Students who have not remedied the unsatisfactory "U" performance, as defined by the program, may also be dismissed from the program.

The graduate program will also be notified at the time of probation or dismissal. Program directors are given the opportunity to initiate retaining a dismissed student by submitting a Conditional Retention Plan (CRP) to the College of Graduate Studies. The Conditional Retention Plan should show how the student can realistically regain his/her regular graduate status (GPA 3.0) within a reasonable time (typically within 9 credit hours of A-F graded coursework). It should also define the courses to be taken and the timing of the courses to regain his/her graduate status. In addition, the plan could include other conditions as necessary for the continued enrollment of the student in the program such as retaking courses and requiring better performance, taking remedial course work in specified areas, or completing special projects to better prepare the student for success in the program. The plan is developed by the graduate program director so that ideally the student and the faculty will know exactly what conditions are required for the continued enrollment of the student. Failure to meet the conditions will result in dismissal without any further appeal of retention. The plans are signed by the student and the graduate program director and submitted to the College of Graduate Studies for review and approval. The primary responsibility for monitoring the progress of the student in meeting the Conditional Retention Plan rests with the degree or certificate program, although the appropriate academic college and the College of Graduate Studies may also monitor the plans for compliance.

International students placed on probationary status will be sent to the UCF Global for advisement regarding the immigration status implications of this action.

After dismissal, the following options are available:

OPTION A. The Program Requests Retention of the Student Within One Year After Dismissal.

The dismissed student may not take program-related course work during this process, which must occur within the next semester following dismissal. The request for retention should include reasons for readmitting the dismissed student, as well as provide a "Conditional Retention Plan" as described above. If the request is approved by the College of Graduate Studies, the student will be readmitted into the program under the Conditional Retention Plan in restricted status and the "dismissal" will be removed from the transcript. However, failure to meet the conditions will result in dismissal (and will be noted on transcript) without any further appeal of retention.

OPTION B. The Dismissed Student Applies for Entry into the Program from Which He/She Was Dismissed After One Year of Nonenrollment in that Program.

In this case, the student must submit a completely new application (application fee, letters of reference if applicable, AND a statement describing why the student thinks he/she is more capable now to successfully complete the program). The program must submit a "Conditional Retention Plan" (as described above) if they choose to support the former student. The Conditional Retention Plan must be submitted to the College of Graduate Studies for approval before an admissions decision is made.

A student that is admitted back into a program from which he/she was dismissed will continue to have the original dismissal denoted on the transcript and will continue with the same graduate status GPA that the student held prior to

dismissal. Also, the student is admitted as a restricted student and must meet the conditions prescribed by the Conditional Retention Plan to enter regular graduate status.

OPTION C: Apply to Another Program.

This option is always available and requires a completely new application. Previously dismissed students accepted into new programs will be admitted under restricted status and have a new graduate status GPA (see Graduate Status GPA section above).

Students with a graduate status GPA of less than 3.0 seeking admission to a different graduate program will be admitted under restricted status with conditions as prescribed by the new program.

Dismissed students will not be allowed to enroll in graduate courses unless they have been admitted to another graduate program or admitted as nondegree students taking classes with permission from the department.

NOTE: Individual graduate programs may have more stringent grade requirements than described above. Students must abide by the academic performance standards of their graduate program.

Maximum Hours of Unsatisfactory Grades

"C" grades (C, C+, C-), as well as D, D+, D-, F, and U grades, are all considered unsatisfactory grades.

A student may apply a maximum total of six semester credit hours of "C" grades, or the "C" grade credits associated with at most two classes, whichever is greater, to satisfy degree program requirements.

Exceeding six semester credit hours of unsatisfactory grades is grounds for dismissal for all degree-seeking and nondegree students. A course in which a student has received an unsatisfactory grade may be repeated, however, both grades will be used in computing the GPA. There is no forgiveness policy for any course taken while in graduate status.

Incomplete Grades

A grade of "I" (incomplete) is assigned by the instructor when a student is unable to complete a course due to extenuating circumstances, and when all requirements can clearly be completed in a short period of time following the close of regular classes. In all circumstances where an "I" grade is received, the student and faculty member must complete an agreement form that specifies how and when the incomplete grade will be made up. This agreement form is submitted with the instructor grade rolls at the end of the semester, and a copy of this agreement is given to the Graduate College for further follow-up. For those students on financial assistance such as loans, the incomplete (I) must be made up by the agreement date. Failure to complete course requirements by that date may, at the discretion of the instructor, result in the assignment of an "F" grade, or a "U" grade for thesis, dissertation, or research report hours. It is the student's responsibility to arrange with the instructor for the changing of the "I" grade.

Grades of "I" must be resolved within one calendar year or prior to graduation, whichever comes first. Incompletes in regular course work left unresolved will be changed to "F" if not changed in the allowed time period, and this time period may be sooner for those receiving financial assistance. The exception to this is enrollment in the thesis (XXX 6971) and dissertation (XXX 7980) hours where the incomplete grade will be allowed to continue until graduation. UCF fellowship students cannot receive fellowship funds while holding Incomplete grades and have thirty days from the issuance of the Incomplete to remedy it in order to continue to receive fellowship funds.

Enrollment

Students must be enrolled in order to take exams, to conduct research or to use any university resources and to graduate. Students who have completed all degree requirements may enroll in IDS 6999 during their semester of graduation.

Continuous Enrollment and Active Student Status

Students must be enrolled for at least one semester of every three consecutive semesters in order to maintain active student status. Students who do not meet this enrollment requirement breach continuous enrollment and will be removed from active student status. These students must reapply for admission. Readmission is not guaranteed.

Students with extenuating circumstances that will compel them to be unenrolled for three consecutive semesters or more may complete a Leave of Absence Form to petition to remain in active student status. This form must be submitted no later than the end of the add/drop period of the third semester of non-enrollment. See the section below for details.

1. Because of current U.S. government regulations, international students must be enrolled every fall and spring semester. For students in this category, a Leave of Absence is only available for documented medical reasons.
2. A student who is discontinued for breach of continuous enrollment will lose the option of fulfilling the degree requirements originally listed in his/her official program of study already on file and will instead be subject to the degree requirements listed in the graduate catalog in effect at the time the student is readmitted to the program.

Continuous Enrollment

Students engaged in thesis or dissertation work must be continuously enrolled every term. Doctoral students who have begun taking dissertation hours and Master's students who have completed their required course work and are completing their thesis requirement are required to be continuously enrolled (including summer) until the thesis or dissertation is completed. For details, see the Master's and Doctoral enrollment policies under Thesis and Dissertation Requirements below. Students with extenuating circumstances that will prevent them from enrolling continuously may submit a Leave of Absence Form. See the section below for details.

Enrollment in Multiple Graduate Programs

- Students are allowed to enroll in multiple master's and doctoral degree programs.
- Approval of the program(s) where the student is currently enrolled is not required for application to or enrollment in additional program(s).
- The College of Graduate Studies shall inform the program(s) of current enrollment when a student is accepted for enrollment in a new program.
- Students will be held responsible for showing academic progress in each program in which they are enrolled.

Special Leave of Absence

Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence. Specifically, students who are taking courses should apply for a Special Leave of Absence when they cannot enroll in more than two consecutive semesters. Students who are in thesis/dissertation hours should apply for a Special Leave of Absence when they cannot enroll in every semester (including summer).

To qualify for a Special Leave of Absence, the student must demonstrate good cause (e.g., illness, family issues, financial difficulties, personal circumstances, recent maternity/paternity, employment issues). The specific reason for the Leave of Absence request must be indicated by the student on the Leave of Absence Form. Because of current U.S. government regulations, international students must be enrolled every fall and spring semester. For students in this category, a Special Leave of Absence is only available for documented medical reasons.

A Special Leave of Absence will be granted only after approval from the Graduate Program Director for the student's program of study and the College of Graduate Studies (and the UCF Global for international students, when applicable).

For students taking classes, the Special Leave of Absence Form must be submitted no later than the end of the add/drop period of the third semester of non-enrollment. For thesis/dissertation students, the Special Leave of Absence Form must be submitted no later than the end of the add/drop period of the term of non-enrollment.

When applying for a Special Leave of Absence, students may request up to 6 consecutive semesters of non-enrollment. Time spent in a Special Leave of Absence (granted Summer 2018 or later) can add a maximum of 3 terms (1 academic year) to the total time limitation for the degree (see the policy regarding Time Limitation for Degree Completion in the master's, specialist, and doctoral policies). Specifically:

- 1 term of SLoA=1 term added to time to degree completion
- 2 terms of SLoA=2 terms added to time to degree completion
- 3+ terms of SLoA=3 terms added to time to degree completion

Special Leave of Absences approved prior to summer 2018 will fall under the old version of the policy. Students who fall under the old version of the policy can petition the 7-year Policy if extreme circumstances of Special Leave of Absence cause a delay beyond 7 years to completion.

If a student fails to enroll in the semester following the last term in the approved Special Leave of Absence, the student will have failed to maintain continuous enrollment and must apply for readmission to the university..

Readmission

To file for readmission, students must complete a new application, submit the application fee, and update their residency information and health history (if applicable). Students should apply for readmission if they were previously admitted and enrolled in a graduate program but have been absent for three consecutive semesters. For more information on readmission, please visit the Graduate website.

Academic Grievance Procedure

The UCF College of Graduate Studies allows for petitions of university requirements and their academic matters. Academic matters are those involving instruction, research, or decisions involving instruction or affecting academic freedom.

The academic grievance procedure is designed to provide a fair means of dealing with graduate student complaints regarding a specific action or decision by a faculty member, program or college, including termination from an academic program. Academic misconduct complaints associated with sponsored research will invoke procedures outlined by the Office of Research and Commercialization.

Students who believe they have been treated unfairly may initiate a grievance. The procedure provides several levels of review, and at each level of review, the participants are further removed and have a broader outlook than where the grievance originated. Procedures for initiating an academic grievance can be found at The Golden Rule www.goldenrule.sdes.ucf.edu/ (see section 11).

Petitions of Graduation Requirements Procedures

Students have the responsibility to familiarize themselves with policies and procedures of the university, college, and program. Students are responsible for knowing the degree requirements and for following the policies that govern the academic program. However, when unusual instances arise, making it appropriate for students to request exceptions of existing graduate academic policies for graduate students, graduate students may petition the appropriate unit for an exception to this requirement. The university is always looking for the compelling reason that an exception is warranted, so this needs to be carefully described in any petition. The procedures are:

- The graduate student completes a Graduate Petition Form and submits it to the graduate program director, specifying the requirement (either a program or university requirement) and the exception desired. The graduate student needs to provide a compelling reason for an exception to be made.
- The graduate program director may ask the program graduate committee to examine and provide advice about the petition to the graduate program director. The graduate program director will then make a recommendation about the exception to the unit head. The unit head will then make a final recommendation.
- The petition will then be sent to the College of Graduate Studies for a final decision. The Vice Provost and Dean of the College of Graduate Studies may ask the Appeals Committee of the Graduate Council of the Faculty Senate to examine the information provided in the petition at their next scheduled meeting and make a recommendation concerning the petition to the Vice Provost and Dean.
- The Vice Provost and Dean of the College of Graduate Studies may consider the input of the Appeals Committee of the Graduate Council and will make a final decision about the petition for the university.

Degree or Certificate Completion

Application and Certification for Graduate Degrees

Students planning to graduate in the next term must complete the Application for Graduation (Intent to Graduate available at my.ucf.edu). Students who have not applied for graduation by the last day of classes in the term preceding the graduation semester may not be listed in the Commencement Program. If the student does not graduate in that term, a new application for graduation must be filed at the beginning of registration for the term of anticipated graduation. Graduating students must be enrolled at UCF during the term of graduation. Graduates may contact the Registrar's Office for Commencement ceremony and guest ticket information.

Assuming that the student is in good standing at the university, degrees will be awarded only after successful completion of the degree requirements stated in the Graduate Catalog under which the student plans to graduate and final recommendation from the faculty and dean of the respective college.

The college of the degree program must certify through the college dean that all program and college requirements have been met. Degree certification forms (Degree Audit forms or program of study with approval signatures) are forwarded to the UCF College of Graduate Studies for a final determination that all program, college, and university requirements have been met.

Application and Certification for Graduate Certificates

In order to be processed for completion of a graduate certificate program, students must file an application for completion (Graduate Certificate Completion form) with the office that offers the certificate program. The Graduate Certificate Completion form should be filed by the time that the student is registering for the final course in the certificate program, and such forms must be filed no later than the end of the semester in which the student enrolls in

the last course required for the certificate program. Forms can be found on the UCF Graduate website (www.graduate.ucf.edu).

The college of the graduate certificate program must certify through the college dean that all program and college requirements have been met. Completed Graduate Certificate Completion forms (available at www.graduate.ucf.edu) are forwarded to the UCF College of Graduate Studies for final determination of program, college, and university requirements. For each certificate program, the graduate program director will certify successful completion of the program's academic requirements. The certificate is mailed to the student unless the student or the graduate program requests other arrangements. Certificate recipients are not recognized at commencement.

Thesis and Dissertation Requirements

An oral defense of an original thesis or dissertation is required with the approved thesis or dissertation being prepared in accordance with program, college, and university requirements.

The College of Graduate Studies Thesis and Dissertation Manual describes UCF's formatting requirements for theses/dissertations and outlines the steps graduate students must follow to submit their thesis or dissertation electronically. Graduate students can obtain the manual and formatting instructions from Thesis and Dissertation (ETD) on the Graduate website. Additionally, the Thesis/Dissertation Office offers workshops to inform graduate students about procedures, deadlines, and requirements associated with preparing a thesis and dissertation.

Academic dishonesty in a thesis, research report and dissertation work may result in reversion to postbaccalaureate status or termination from the degree program. Our emphasis on academic honesty requires quotations or ideas of others to be accompanied by appropriate citations.

All theses and dissertations that use research involving human subjects, including surveys, must obtain approval from an independent board, the Institutional Review Board (IRB), for this prior to starting the research. It is imperative that proper procedures are followed when using human subjects in research projects. Information about this process can be obtained from the Office of Research and Commercialization (www.research.ucf.edu). Failure to obtain this prior approval could jeopardize receipt of the student's degree.

Students who wish to complete their degree requirements in a given semester must take their oral defense and submit the final electronic copy of their thesis or dissertation by the dates shown in the Academic Calendar. All students are required to submit their thesis or dissertation electronically.

Traveling Scholars

The Traveling Scholar status enables a UCF graduate student to take advantage of special resources available on another campus that are not available at UCF (for example, special course offerings, research opportunities, unique laboratories, and library collections). Provided the appropriate approval described below is obtained, Traveling Scholar credits are guaranteed to be accepted as earned UCF credits, as long as the grades obtained are B- or higher.

A Traveling Scholar must be recommended by his or her own graduate adviser, who will initiate a visiting arrangement with the appropriate faculty member of the host institution. After agreement by the student's adviser and the faculty member at the host institution, graduate deans at both institutions will be fully informed by the adviser and have the authority to approve or deny the academic arrangement. A student will register at the host institution and will pay tuition and/or registration fees according to fee schedules established at that institution. The Traveling Scholar Form must be completed by the student and approved by the UCF College of Graduate Studies before any coursework can be taken.

Each university retains its full right to accept or reject any student who wishes to study under its auspices. A Traveling Scholar will normally be limited to one term for a total of six credit hours taken as a traveling scholar at another institution.

A Traveling Scholar is not entitled to displacement allowance, mileage, or per diem payments. The home university, however, may at its option continue its financial support of the traveling scholar in the form of a fellowship or graduate assistantship with any work obligation to be discharged either at the home or at the host institution.

To obtain credit for approved Traveling Scholar courses, the student must request an official transcript be sent from the host institution to the UCF College of Graduate Studies (Millican Hall 230, P.O. Box 160112, Orlando, FL 32816-0112; Phone 407-823-2766), and the graduate program director must complete the Transfer Request Form so that the credits can be entered into the student database. Credits earned at another institution while in Traveling Scholar status will be considered internal transfer credits and do not count toward the student's graduate status GPA. These hours may count toward UCF residency requirements if prior approval is obtained. Graduate students are not allowed to be traveling scholars in their final, or graduation, term except by prior approval of the UCF College of Graduate Studies.

An international graduate student who is registered at another educational institution besides UCF as a Traveling Scholar or as a transient student is required to complete a Reduced Course Load Form to satisfy SEVIS requirements of being enrolled full-time. International graduate assistants employed at UCF must be enrolled full-time at UCF.

Assistantship Opportunities

As part of a program's professional development plan for students, full-time graduate students may be offered the opportunity to gain experience as a Graduate Teaching Assistant (or Associate or Grader; GTA), Graduate Research Assistant (or Associate; GRA), or Graduate Assistant. Please visit the Financial Information section in the catalog for more information.

Assignments to these professional development activities are intended to supplement the student's academic program of study in order to give the student professional experiences that will enhance the student's development and prepare him/her for postgraduation employment. While these activities provide the opportunity for students to be graduate assistants, their overriding purpose is to help develop the skills, abilities, and professionalism of the student.

All graduate assistants (GTAs and GRAs) must be assigned to at least a half-time appointment (0.25 FTE assignment, approximately equivalent to 10 hours per week). However, the standard assignment for graduate assistants is a full-time appointment (0.5 FTE assignment approximately equivalent to 20 hours per week). Students who desire more than a full-time appointment during fall and spring semesters must complete a Supplemental Assignment Form. The UCF College of Graduate Studies will only grant exceptions to this policy in rare circumstances and for compelling reasons related to the student's professional development. Exceptions are granted only rarely during the first year of a student's program of study. Decisions are based on the student's academic record, the appointment FTE, the relationship of the assignments to the student's program of study, support from the graduate program director, and related factors.

Student FICA exemption. Graduate assistants who are enrolled at least part-time (5 hours in fall, 5 hours in spring, or 3 hours in summer) will be exempt from FICA/Medicare taxes during pay periods that overlap with the academic term and during breaks of less than five weeks. Breaks longer than five weeks where graduate students are on a graduate assistant appointment but not enrolled will result in withholding FICA/Medicare taxes.

Academic Common Market Scholars

The University of Central Florida is a participating institution in the Academic Common Market (ACM) program with other southern universities sharing unique academic programs on the undergraduate and graduate level. However, the University of Central Florida only participates at the graduate level.

The Academic Common Market offers students the opportunity to enter degree programs that are not available in their home state, while still being eligible to pay in-state tuition rates. Students taking part in this program must be admitted by a participating university (notifying that university of their planned attendance as an ACM Scholar) and will need to obtain a letter of certification from their respective ACM state coordinator.

The first step is to contact your respective state coordinator for information on how to apply for the Academic Common Market. Contact information for state coordinators can be found on the following website:
<http://home.sreb.org/acm/states.aspx>.

After making contact with your state coordinator, if you are eligible for the ACM, you can apply to the University of Central Florida online through the website at application.graduate.ucf.edu/. When filling out the Florida Residency Classification section, select the option that states "I am a Florida Resident for tuition purposes" and fills out the entire section. Before saving the page, you will need to add an explanation for your Florida residency. Please select the letter "N," which states "I am a Southern Regional Education Board's Academic Common Market graduate student."

Upon submission of your application, and your program's required admissions criteria, you will receive a decision from the program in which you have applied. If accepted, you can present that information to your state coordinator, who will then be able to provide UCF with a certification letter. With that letter, UCF will then be able to offer you Florida residency for tuition purposes.

The participating universities are located in the following states:

Alabama	Louisiana	Tennessee
Arkansas	Maryland	Texas*
Delaware	Mississippi	Virginia
Florida*	North Carolina	West Virginia
Georgia	Oklahoma	
Kentucky	South Carolina	

*Only Florida, North Carolina, and Texas participate at the graduate level.

For more information, please contact the UCF College of Graduate Studies at 407-823-2766 (Millican Hall 230, P.O. Box 160112, Orlando, FL 32816-0112). Additional information on the Academic Common Market, including contact information for state coordinators and all available academic programs, can be found on the Southern Regional Education Board (SREB) website, www.sreb.org.

Proprietary and Confidential Information

It is the intent of the University to foster the professional development of its faculty and students. In particular, the proprietary and patent policies serve to protect the interests of UCF graduate students so that they can engage in research that will ultimately be published. In no circumstances should the University knowingly enter into an agreement with outside agencies that would prevent the ultimate publication of the graduate student's work, like a thesis or dissertation or other means. These policies also help to clarify protections for intellectual property contained in theses/dissertations for students who engage in employment outside the University.

If thesis or dissertation work is supported by a contractual agreement with an outside agency, and provision was made in the agreement to delay disclosure of the study's results for the purpose of filing a patent or copyright, then this section describes procedures for handling the thesis/dissertation.

1. Only for those theses and dissertations where a prior written agreement was made between UCF and an outside agency or where the University wishes to pursue a copyright/patent may publication of the thesis/dissertation be delayed, or in exceptional circumstances as determined by the University on a case by case basis. Review and delay of disclosure of the thesis/dissertation may take up to 6 months.
2. The review by the outside agency or by the University for the purpose of copyright or patent will follow the oral defense of the document. If it appears that the review process will delay certification of the degree or if the delay of disclosure is exercised, the certification process will be completed but the thesis or dissertation will not be released for up to 6 months.
3. No graduate degree will be awarded when the thesis or dissertation, after a reasonable interval, is not available to the public. If the material is sensitive, classified, or will be patented, the thesis or dissertation will not be released for up to 6 months.
4. Contractual agreements that contain provisions for review and delay of disclosure shall be reviewed by the Office of Research and Commercialization. Exceptional cases may include a delay of disclosure for more than six months and/or review prior to the oral defense.
5. The student and the student's Adviser shall be informed of the possibility of the delay of disclosure at the time of the appointment of the Adviser.

Ownership of Intellectual Property

The "Patent and Invention Policy" for graduate students is included here in its entirety. Departments and colleges should discuss this policy with graduate students at orientations.

PREMISE: UCF has three fundamental responsibilities with regard to graduate student research. They are to (1) support an academic environment that stimulates the spirit of inquiry, (2) develop the intellectual property stemming from research, and (3) disseminate the intellectual property to the general public. In most cases, UCF owns the intellectual property developed using university resources. The graduate student as the inventor will according to this policy share in the proceeds of the invention.

1. **University Authority and Responsibilities:** Florida Statute Section 1004.23 authorizes the University to take any action necessary to secure letters of patents, copyrights, and trademarks on any work products and to enforce its rights therein. This policy applies to graduate students who are considered University personnel.
2. **Definitions:** For the purposes of this policy the following definitions shall apply:
 - a. Work includes any copyrightable material (other than journal articles) such as printed material, computer software or databases, audio or visual materials, circuit diagrams, mask works, architectural and engineering drawings, lectures, musical or dramatic compositions, choreographic works, pictorial or graphic works, and sculptural works.
 - b. An **Invention** includes any discovery, invention, process, the composition of matter, article of manufacture, know-how, design, model, technological development, strain, variety, culture of any organism, or a portion, modification, translation, or improvement of these items, and any mark used in connection with these items.
 - c. **Instructional Technology Material** includes motion pictures, film strips, photographic and other similar visual materials, live video and audio transmissions, computer programs, computer-assisted instructional coursework, programmed exhibits, and combinations of the above materials, which were prepared or produced in whole or part by a graduate student, and which are used to assist or enhance instruction.
 - d. **University Support** includes the use of University funds, personnel, facilities, equipment, materials, or technological information, and includes such support provided by other public or private organizations when it is arranged, administered, and/or controlled by the University.
 - e. **Student-generated Effort** means that the ideas come from the graduate student alone outside the field or discipline for which the graduate student is employed by the University, the work was not made with the use of University support, and the University is not held responsible for any opinions expressed in the effort.

- f. **Research** means the inquiry or examination in some field of knowledge undertaken to establish facts or principles that are true. Research, as used in this policy, does not include work done in an internship or coop setting where new knowledge in a field is not actively sought, but rather a setting that offers a real-life experience for the graduate student.
3. **Work(s)**
- a. **Student-generated Effort**—A **work** made solely by the graduate student, outside the field or discipline for which the graduate student is employed by the University, is the property of the graduate student, who has the right to determine the disposition of such **work** and the revenue derived from such **work**.
 - b. **University-supported Efforts**—If the **work** was not made solely in the course of student-generated efforts, the **work** is the property of the University, and the graduate student shall share in the proceeds therefrom.
 - c. **Disclosure**
 1. Upon creation of a **work** that is potentially patentable, and prior to any publication, the graduate student shall disclose to the Office of Research and Commercialization any **work** made in the course of University-supported efforts, together with an outline of the project and the conditions under which it was done.
 2. The Office of Research and Commercialization shall gather information to assess the relative equities of the graduate student and the university in the **work**.
 3. Within 120 days after such disclosure, the Office of Research and Commercialization will inform the graduate student whether the university seeks an interest in the **work**.
 4. The graduate student and the university shall not commit any act which would tend to defeat the university's or graduate student's interest in the **work** and shall take any necessary steps to protect such interests.
4. **Invention(s)**
- a. **Student-generated Efforts**
All **inventions** made outside the field or discipline in which the graduate student is employed by the university and for which no university support has been used are the property of the graduate student.
 - b. **University-supported Efforts**
An **invention** made in the field or discipline in which the graduate student is employed by the university, or receiving university support, is the property of the university and the graduate student shall share in the proceeds therefrom.
 - c. **Disclosure**
 1. A graduate student as inventor or co-inventor shall fully and completely disclose to the Office of Research and Commercialization all **inventions** which the inventor(s) may develop or discover while a graduate student of the University, together with an outline of the conditions under which it was done. With respect to **inventions** made during the course of approved outside employment, the graduate student as inventor or co-inventor may delay such disclosure, when necessary to protect the outside employer's interest, until the decision has been made by the outside employer whether to seek a patent.
 2. The Office of Research and Commercialization shall inform the graduate student as an inventor as well as all other inventors within 120 days of disclosure as to whether the University wishes to assert an ownership interest in the intellectual property.
 3. The division of proceeds generated by the licensing or assignment of an **invention** shall be according to the established royalty division set forth in the patent policy of the University of Central Florida Research Foundation.
 4. The graduate student as inventor(s) and the University shall not commit any act which would tend to defeat the University's or inventors' interest in the **invention** and shall take any necessary steps to protect such interests.
5. **Release of Rights**

At any stage of making the patent applications, or in the commercial application of an **invention**, if it has not otherwise assigned to a third party the right to pursue its interests, the Office of Research and

Commercialization, may elect to withdraw from further involvement in the protection or commercial application of the **invention**. At the request of the graduate student in such case, the University shall transfer the **invention** rights to the inventor(s), in which case the invention shall be the inventor(s) property, and none of the costs incurred by the University or on its behalf shall be assessed against the inventor in whole or in part.

6. **University Policy**

- a. The University has a policy addressing the division of proceeds between graduate students and faculty when the **research** is done and results in a dissertation, University Regulations, 6C7-2.029 Copyrights, and Patents). The University also has a policy addressing the division of proceeds between UCF inventor(s) and the University (see University Regulations, 6C7-2.029). It is also contained in the Patents and Copyrights Policy of the UCF Research Foundation. This same division of royalties will apply in the disbursement of royalty income to graduate students as inventor(s) unless this has been negotiated in a separate contractual agreement.
- b. All sponsored **research** done by graduate students enrolled at the University for and with companies must have a contractual agreement with UCF negotiated at the start of that research. Graduate students must be informed at the start of the research about any contractual agreements that would concern the future publication of their research work.
- c. Dissertation or thesis dissemination can be delayed because of patent or proprietary information concerns of a sponsor. This can occur when a prior contractual agreement has been entered into that includes provisions for a research sponsor's review between the sponsor and University. (See Proprietary and Confidential Information above.)

International Graduate Student Policies

Full-time Enrollment Requirements

A full-time degree-seeking graduate student must take at least 9 credit hours in the fall and spring semesters. A half-time load is defined as enrolled in at least 4.5 credit hours in fall and spring terms. During the summer term, full-time is 6 credit hours and half-time is 3 credit hours. There are two exceptions to this policy:

1. For master's students pursuing a thesis option, full-time enrollment is defined as 3 hours per semester (including summers, without skipping a semester) of thesis coursework (XXX 6971), after completion of all coursework and until graduation. Students who wish to enroll in part-time hours should consult their adviser.
2. For doctoral students who have passed the candidacy exam and are registered for doctoral dissertation (XXX 7980) hours only, full-time is 3 hours per semester until graduation. Such students must continue to enroll in at least three dissertation hours each semester (including summers, without skipping a semester) until they successfully complete the dissertation and graduate. Students who wish to enroll in part-time hours should consult their adviser.

Graduate students receiving assistantships, tuition support, and fellowships must be enrolled full-time as degree-seeking students who maintain good academic progress.

Special Considerations

All international students on F or J visas must maintain full-time, degree-seeking status regardless of financial support received from the university. F and J visa holders should contact UCF Global to ensure that their enrollment conforms to the full-time definition of their visa status. International students should not change their course schedule or drop classes without advisement from the UCF Global. All international students who enroll in less than 9 hours per term must submit to UCF Global a Reduced Course Load Form that explains the nature of the reduced hours and must obtain approval from UCF Global (see <https://global.ucf.edu/> for Reduced Course Load Form). This requirement also applies to international students who are enrolled in less than 9 hours per term in thesis or dissertation hours.

Students who do not satisfy these full-time enrollment requirements will not qualify for graduate assistantships, fellowships or tuition support.

International Student Employment

According to U.S. Citizenship and Immigration Services (USCIS) regulations, graduate students who are on an F-1 or J-1 visa may accept employment on campus without prior USCIS approval as long as students are enrolled full-time and employment does not interfere with their studies.

Graduate students who desire to engage in off-campus employment must be approved by the UCF Global for Curricular Practical Training (CPT) prior to beginning the employment. CPT is defined as employment that is an integral part of the established curriculum and can be in the form of an internship or cooperative educational experience. In order to qualify for CPT, there are several requirements that must be met. Please speak with an adviser at the UCF Global for more information on these requirements and prior to engaging in off-campus employment.

During the fall and spring semesters, on-campus employment is limited to no more than 20 hours per week while school is in session. During the summer, on-campus employment may be up to 40 hours per week. (Please note that all graduate assistants during the summer must enroll in a full-time course load.) Employment may also be up to 40 hours per week during vacation or other break periods. Please speak with an adviser at the UCF Global for clarification of these policies.

On-campus employment is not permitted after completion of the program of study unless the student is issued a Form I-20A-B to begin a new program and intends to enroll in the next regular academic term or session.

Students who received a bachelor's degree at one school and will start a master's degree or PhD at UCF are eligible to work during the summer at UCF as long as a Form I-20A-B was issued for the new master's or PhD program.

International students on an F-1 visa are eligible to apply for one year of optional practical training (OPT) after completion of their program.

For more information about the employment of international students, contact the UCF Global at 407-823-2337 or visit the office to speak with an adviser.

English-speaking Ability for Graduate Teaching Associates and Assistants

Students who plan to serve as graduate teaching associates or assistants (GTAs) and for whom English is a second language are required to pass the SPEAK test. The SPEAK test evaluates an individual's English-speaking skills. This requirement applies to all students from countries where English is not the native language; however, such students will be exempt if they have completed a previous degree from an accredited U.S. college or university recognized by UCF, from a country where English is the only official language, or from a university at which English is the only official language of instruction, or they have received a score of 26 or higher on the Speak portion of the ibt TOEFL. Only exempted students and those who have attended the UCF GTA Training and satisfactorily passed the evaluation of their English-speaking skills may be assigned as GTAs.

For more information about this requirement and the free English-speaking training that the university provides, see "English-speaking Ability for Graduate Teaching" in the Assistantships section of this graduate catalog. See Graduate Teaching in the UCF Graduate Student Handbook for Information on registering for GTA Training and SPEAK testing.

International Visiting Scholars

The following policy and procedures allow departments to invite international visitors to study, teach, or participate in research activities at UCF. The policy is directed to those who do not wish to earn a degree, but who may audit courses in the postbaccalaureate, nondegree-seeking status for professional development and who normally have complete financial support provided by some outside agency. These visiting scholars will have J-1 visa status and use the Professor, Research Scholar, or Specialist category as permitted by immigration regulations. Visitors seeking degrees will use regular UCF admission procedures and must enter the United States using the F-1 or J-1 visa student category.

Visiting scholars who are required to audit courses at UCF must fill out the UCF application for admission as a nondegree student and pay the application fee. The deadline is about four months before the beginning of a term. A faculty member, as Faculty Sponsor, must accept the responsibility for recommending, advising, and directing the activities of the scholar. The procedure for extending an invitation to a prospective scholar is as follows:

1. If financial support will be provided to the visiting scholar using university resources, then the approval of the university must be obtained on all correspondence with the visiting scholar. Written arrangements should be made with the Vice President for Research for financial support prior to invitations to visiting scholars.
2. The Department Chair will submit a recommendation to the Dean specifying the Faculty Sponsor, documenting anticipated activities, and providing the following information on the Visiting Scholar:
 - a. Date of birth
 - b. City and country of birth
 - c. Country of residence if different from country of birth
 - d. Place of work (academic institution, business firm, etc.)
 - e. Current position held in country of residence
 - f. Academic background
 - g. Professional experience
 - h. Source and amount of financial support (recommended honorarium, if any)
 - i. English proficiency
 - j. Dates of visit
 - k. Statement of how the Visiting Scholar will participate in research and what will be accomplished
 - l. Office space, equipment, etc. which will be required for scholar's use
3. If arrangements are approved, the Dean will notify the Vice President for Research that the College is extending an invitation. The Chair's recommendation will be included with the notification. These will be sent to the UCF College of Graduate Studies so that the invitation and application may be placed in the visiting scholar's official university file.
4. The UCF College of Graduate Studies will then forward copies of the information to the UCF Global. Upon receipt and verification of the required documents, a Form DS-2019 for the purpose of the J-1 visa application J-1 Visa will be issued.
5. The Faculty Sponsor will then correspond with the visitor detailing the conditions of the visit, including whatever limited financial support and facilities will be provided and what is expected of the Scholar, with copies of this correspondence sent to the UCF Global and the Vice President for Research. The Scholar will be asked to write a brief report at the termination of the visit.
6. **All visiting scholars should report to the UCF Global directly upon arrival at UCF to ensure that their immigration documents are in order.**

During each academic term of the visit, the Visiting Scholar may be required to audit one hour of XXX 6918, Directed Research, under the direction of the Faculty Sponsor and also may be permitted (or required) to audit regular courses. The Visiting Scholar will be admitted to postbaccalaureate status and will audit courses as directed and approved by the Faculty Sponsor. The Visiting Scholar will not be permitted to take courses for credit unless formally admitted to a degree program or upon written approval from the Dean of the college in which the student is studying.

The international visiting scholar will be appointed Visiting Research Scholar or Visiting Scholar in the College and may be given a modest honorarium. Such scholars will normally not be maintained on the College payroll, but are expected to have extended financial support.

Linkage Agreements

The State of Florida has established various linkage agreements to assist in the development of stronger economic and social ties between Florida and strategic foreign countries. Linkage Institutes are set up throughout the state and provide out-of-state tuition exemption to scholars from the foreign countries represented by the institutes. To participate in these exemptions, students must apply to the Linkage Institute for the country in which they reside to receive an out-of-state tuition award. Students participating are required to return home after their tenure of graduate study for a length of time equal to the exemption period. Each institute develops its own criteria for selection of students and typically supports the out-of-state fees for about 20 to 30 scholars a year. The institutes established in Florida are listed below with their contact persons.

Florida-Brazil Institute

Center for Latin American Studies
University of Florida
319 Grinter Hall
P.O. Box 115530
Gainesville, FL 32611-5530
Tel: (352) 392-0375 ext. 800
Fax: (352) 392-7682
Web Address: <http://www.floridabrazil.org/>

Florida-Canada Institute

Lisa Lomitola
Office of International Studies
University of Central Florida
3000 Central Florida Blvd, MH 150
Orlando, FL 32826-3105
Phone: (407) 823-3647 Fax: (407) 882-0240
Email: fcli@ucf.edu
Web Address: fcli.intl.ucf.edu/

Florida-Caribbean Institute

Christine Jarchow
Latin American & Caribbean Center
Florida International University
DM-353 University Park, Miami, FL 33199
Phone: (305) 348-1913 Fax: (305) 348-3593
Email: jarchowc@fiu.edu
Web Address: lacc.fiu.edu/academics/financial/fci/

Florida-China Institute

Dr. Miriam Stamps
Chair of Marketing Department

College of Business
University of South Florida
4202 E. Fowler Ave., BSN 30403, Tampa, FL 33620
Phone: (813) 974-6205 Fax: (813) 974-6175
Email: mstamps@coba.usf.edu

*Tuition Exemption Office

Dr. Henry Chen

University of West Florida
11000 University Parkway
International House Bldg. 71, Room 117, Pensacola, FL 32514-5750
Phone: (850) 474-2665 Fax: (850) 474-2915
Email: hchen@uwf.edu

Francine Arrington

Director of International Services
Brevard Community College, 1519 Clearlake Road, Cocoa, FL 32922
Phone: (321) 433-7342
Email: arringtonf@brevard.cc.fl.us
Web Address: www.uwf.edu/fcli/

Florida-Costa Rica Institute

*Tuition Exemption Office

Joan Cassels

International Programs Office
Florida State University
A5529 UCA, Tallahassee, FL 32306-2420
Phone: (850) 644-7823 Fax: (850) 644-8817
Email: jcassels@admin.fsu.edu
Web Address: flcrlinkage-fsu.us.fluidreview.com/

Florida-Eastern Europe Institute

Tuition Exemption Office

Mr. Angel Cardec

Office of International Studies
University of Central Florida
12424 Research Parkway, Suite 395
Orlando, FL 32826-3208
Phone: (407) 882-2300 Fax: (407) 275-4386
Email: acardec@mail.ucf.edu

Dr. Charles Mojock

Lake-Sumter Community College
9501 U.S. HWY 441, Leesburg, FL 34788-8751
Phone: (352) 365-3523 Fax: (352) 365-3548
E-mail: mojockc@lscf.cc.fl.us
Web Address: www.international.ucf.edu/eeli

Florida-France Institute

*Tuition Exemption Office

Dr. Christine Probes, Co-director (c/o Violetta Urba)

Florida France Institute

University of South Florida

4202 E. Fowler Ave., CPR107, Tampa, FL 33620-5550

Phone: (813) 974-8081 Fax: (813) 974-8271

Email: global.usf.edu/florida_france/

Joan Cassels

International Programs

Florida State University

A5529 UCA, Tallahassee, FL 32306-2420

Phone: (850) 644-7823 Fax: (850) 644-8817

Email: jcassels@admin.fsu.edu

Web Address: global.usf.edu/florida_france/index.htm

Florida-Israel Institute

Dr. Zvi Roth, Co-Director

Florida-Israel Institute

Florida Atlantic University, SE-470

777 Glades Road, Boca Raton, FL 33431

Phone: (561) 297-3471 Fax: (561)-297-4094

Email: rothz@fau.edu

Dr. Catherine Meschievitz, Director

Office of International Programs SU-106

Florida Atlantic University

777 Glades Rd., Boca Raton, FL 33431

Phone: (561) 297-1039 Fax: (561) 297-2850

Email: cmeschie@fau.edu

Dr. Daniel Rieger, Co-Director

Florida-Israel Institute

Broward Community College

Bldg. 57, Room 215 (North Campus)

1000 Coconut Creek Blvd., Coconut Creek, FL 33066

Phone: (954) 201-2451

Email: drieger@broward.edu

Dr. David D. Moore

Associate Vice President for International Education

Broward Community College

225 East Las Olas Boulevard, Fort Lauderdale, FL 33301

Phone: (954) 201-7707 Fax: (954) 201-7708

Email: dmoore@broward.edu

Web Address: www.floridaisrael.org

Florida-Japan Institute

Tuition Exemption Office

Dr. Mark Orr

(c/o Violetta Urba)
University of South Florida
4202 E. Fowler Ave., CPR 107, Tampa, FL 33620
Phone: (813) 974-8081 Fax: (813) 974-8271
Email: florida-japan@iac.usf.edu

Ms. Shigeko Honda
University of West Florida
11000 University Parkway Pensacola, FL 32514-5750
Phone: (850) 474-3108 Fax: (850) 857-6024, shonda@uwf.edu
Web Address: uwf.edu/academic-engagement/departments/international-affairs/scholarships-and-linkages/florida-japan-linkage-institute/

Florida-Mexico Institute

Christine Jarchow
Latin American & Caribbean Center
Florida International University
DM-353 University Park, Miami, FL 33199
Phone: (305) 348-1913 Fax: (305) 348-3593
Email: jarchowc@fiu.edu
Web Address: lacc.fiu.edu/academics/financial/fmi/

Florida-West Africa Institute

Dennis Gayle
Ms. Betty Flinchum
University of North Florida
Building 838
c/o International Center
4567 St. Johns Bluff Road, South Jacksonville, Florida 32224-2676
Phone: (904) 620-1950 Fax: (904) 620-3925
Email: dgayle@unf.edu, bflinchu@unf.edu

Dr. Brenda Simmons
Florida Community College at Jacksonville
101 W. State St. #A 1185, Jacksonville, FL 32202-2056
Phone: (904) 633-5895 Fax: (904) 633-8172
Email: bsimmons@fccj.org

Ms. Anges Coppin
Florida A&M University
304 Perry Page North, Tallahassee, FL 32307
Phone: (850) 599-3562 Fax: (850) 561-2587
Email: agnes.coppin@famu.edu
Web Address: www.unf.edu/intlctr/FLAWI_Waiver.aspx

Graduate Certificate Program Policies

Graduate certificate programs are a way for universities to provide the latest disciplinary knowledge in the most flexible and convenient formats for the professional development of its alums and others who desire further education. Graduate certificate programs are very popular options at UCF for graduate study without having to commit to an existing master's or doctoral program. One of the benefits of enrolling in a graduate certificate program is that later, should students decide to do so, they can usually apply all of the credits earned in the graduate certificate to a graduate program. The graduate certificate program is meant to be flexible and offer a short-term study that provides specialized knowledge that supplements an existing degree. Graduate certificate programs are particularly helpful to those professions where licensure and continuing professional development are required. Many of our graduate certificate programs are offered online for convenience. One of the most important benefits of our graduate certificate programs is that they are taught by our graduate faculty using regular graduate courses at the university.

UCF has 99 graduate certificate programs available to supplement existing graduate programs or to provide specialized knowledge in disciplines that complement the education of working professionals in the metropolitan area served by UCF. Many of our area employees have advanced graduate degrees and can enhance their education with specialized groups of courses. Frequently, a package of specialized courses that forms a certificate will increase employment credentials, lead to career enhancement, and produce more income.

It is the intent of these programs to be current and to provide specialized, state-of-the-art content to area employees. Often certificate programs are offered using flexible and non-traditional delivery systems that provide the best service to the employees in this metropolitan area. Distributed learning, weekend courses, evening courses, and accelerated term courses are acceptable.

Certificate programs are often ideal for nondegree students who would like to sample graduate courses before committing to a graduate degree program. Certificate programs may round out a graduate degree program, providing a special emphasis that supplements a graduate degree. Frequently, a certificate program can provide an interdisciplinary focus that provides more depth and understanding to an existing graduate program.

Any academic unit may propose a graduate certificate program that encompasses graduate courses in its graduate program. If an interdisciplinary certificate program is proposed, it must be acceptable to departments and faculty offering the courses and graduate programs on which the certificate program is based.

Graduate Programs

Certificate Program Admission Requirements

Students currently admitted to a graduate degree program or to non-degree status can apply and are eligible to enroll in graduate certificate programs. In addition, individuals who have previously completed bachelor's, master's, or doctoral degrees are eligible to enroll in certificate programs. In order to apply to a graduate certificate program, a student must submit an online admissions application, pay a \$30 application fee, and submit an official transcript showing an earned bachelors or higher degree from an accredited institution recognized by UCF or recognized foreign institution. On the online application, the student must designate the certificate program that he/she wishes to enter. Students are required to submit the application and obtain formal admission to the graduate certificate program. Students are advised to apply for the graduate certificate program well in advance of completion of all required courses. Students must complete the certificate requirements that are listed in the Graduate Catalog that is in effect at the time of their formal admission to the certificate program.

Admission to a certificate program does not guarantee admission to a graduate program. However, once a person is accepted into a master's, specialist, and doctoral graduate program, credits from a completed UCF certificate program may be applied toward an existing graduate program with the consent of the program.

Nondegree students who are enrolled in a certificate program are not eligible for tuition support, assistantships, or fellowships, and are not generally eligible for federal financial aid.

Course Requirements and Loads

A certificate program must include a minimum of nine semester hours. The course work must consist of an integrated and organized sequence of study; course substitutions are not permitted.

No internship or independent study courses may be used in a certificate program. The use of practicum courses in certificate programs is not generally encouraged, but may be used in programs where there is a strong professional setting and on-campus faculty supervision. Alternative delivery programs are acceptable and encouraged.

Certificate students must take the full number of required hours for a certificate program. Generally, a course may not apply toward more than one certificate program. However, if an overlap of coursework occurs between two or more certificate programs for the same student, the student must complete the total required hours by taking electives approved by the program.

All courses that are offered as part of a certificate program must be graduate-level courses. Students must earn course grades of "B-" or better to get credit toward the certificate. Courses may be retaken to achieve a better grade. However, the certificate will only be awarded if the graduate status GPA in the certificate program of study is 3.0 or higher.

Transfer of Credit

No graduate credit hours taken at other institutions can be applied to a graduate certificate program at UCF. If requested prior to the completion of the certificate program requirements, graduate credit hours taken at UCF from a prior baccalaureate, master's, specialist, or doctoral degree may be applied toward a certificate, with the consent of the program, provided they are no more than seven years old. The request for using credits from prior years must be submitted no later than the end of the add/drop period in the semester in which the student takes the final course in the certificate program

Time Limitation for Certificate Completion

The student has seven years from the date of admission (prerequisite, articulation, and foundation courses are exempt) to the certificate program to complete the certificate. In addition, no course older than seven years at the time of graduation may be used in the Program of Study for a certificate. Students who do not maintain continuous enrollment (missing enrollment at the university for a period of three consecutive semesters) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

Students who anticipate being out for an extended period of three consecutive semesters or longer should apply for a Special Leave of Absence no later than the end of the add/drop period of the third semester of absence. Students who do not maintain continuous enrollment without a Special Leave of Absence (see Continuous Attendance and Special Leave of Absence in the General Graduate Policies) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

Readmission

Certificate students should maintain continuous enrollment in their certificate program. Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence (see Special Leave of Absence in the General Graduate Policies).

The student has seven years from the date of admission to the program to earn their degree. Students who do not maintain continuous enrollment (missing enrollment at the university for a period of three consecutive semesters) must file for readmission to the university. Although seven years is measured from when the student was first admitted to the program.

If certificate students do not maintain continuous enrollment and have not filed for a special leave of absence (see Continuous Enrollment in the General Graduate Policies), they must file for readmission to the university. To file for readmission, the student must complete a new online application. For more information about readmission, refer to the Admissions section of this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break-in graduate education, progress in the certificate program, among others. Readmission is not guaranteed.

Completion of Graduate Certificate

In order to be processed for completion of a graduate certificate program, students must have obtained formal admission into the graduate certificate program (see Certificate Program Admission Requirements above). Students nearing completion of a graduate certificate program must complete the online Intent to Graduate Form by logging into myUCF and navigating to the Student Center Academics > Undergraduate and Graduate Careers > Intent to Graduate: Apply. Intent to graduate should be filed online no later than the last day of registration for the semester of graduate certificate completion.

Students will only be processed for completion of a graduate certificate if they have previously submitted a certificate application form, have been formally admitted to the program, and have filed an intent to graduate.

Master's Program Policies

Master's Admission Requirements

Admissions to a master's degree program requires a bachelor's degree from an accredited institution recognized by UCF, or recognized foreign institution, and a minimum of a 3.0 GPA in the overall bachelor's degree program or in the last 60 attempted semester hours of undergraduate studies. Some master's programs do not require a GRE or GMAT score for the admissions process while others do. Please see the Graduate Programs section of the catalog for information about specific program requirements.

Programs often require additional or higher criteria. An applicant's character, integrity, and general fitness to practice a particular profession may also be considered in the admission process. The university encourages applications from a diverse population and values diversity in our graduate programs.

Course Requirements

The program requirements for a master's degree may include core and elective courses, seminars, independent study, clinical courses, directed research, and thesis research.

- A minimum of 30 semester hours of post-baccalaureate, graduate work (5000-level or higher) is required and must be taken as part of an approved graduate program of study. Some programs require more than the minimum of 30 hours because of the nature of the discipline and the standards of the associated profession.
- At least half of the credit hours used to meet program requirements must be at the 6000 level.
- Only graduate-level work with a grade of "C-" or higher may be used to satisfy degree requirements.
- For the master's degree, at least 24 semester hours of core and elective courses must be earned exclusive of thesis and research.
- In no case will the number of thesis hours in excess of the amount required by a program be counted toward degree completion.

- At least 50 percent of the credits offered for the degree are expected to be derived from a single field of concentration (that is, from one department). However, programs that are interdisciplinary in nature may be exempt from this policy upon approval from the Graduate Council Curriculum Committee.
- A research report, capstone course, comprehensive exam, or other culminating experience that demonstrates that graduate students have engaged in independent learning is required in a nonthesis option master's program. An explanation of how the culminating experience promotes independent learning is required in each program's curricular description.
- A thesis hour requirement may only be satisfied by enrollment in thesis hours.
- In the case where a student changes from a thesis to a nonthesis option, up to 6 thesis hours may be used to substitute for other research hours.

Independent Study Hours

Independent study (XXX 6908) may be taken for a total of no more than six semester hours.

Residence Credit

The master's degree program must include at least 21 semester credit hours taken at UCF. Residence credits may be earned through enrollment in courses physically offered on the main campus; or at the UCF regional campuses (Brevard, Daytona Beach, and Downtown); or at geographical locations where UCF courses are being taught by regular UCF faculty members. Residence credits may also include UCF courses offered through the web or courses taken as a Traveling Scholar if prior approval is obtained.

Transfer of Credit

Types of Transfer Credit

1. External transfer credits: course credits completed at an accredited institution recognized by UCF (excluding UCF) or recognized international institution.

External transfer credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level courses may be accepted as transfer credits.
- Only courses with a grade of "B-" or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours that are no more than seven years old at the time of transfer may be transferred, unless part of an earned graduate degree.
- Only formal course work hours, but not thesis or research hours, may be used as transfer credits (not petitionable).

External transfer credits are limited to up to 9 credit hours for students who do not have a completed graduate degree or for students in doctoral programs that require a master's degree for admission.

2. Internal transfer credits: graduate-level course credits completed at UCF prior to enrolling in the program for which the degree is sought, including those taken in undergraduate status at UCF as part of a Senior Scholar or accelerated program; or as a Traveling Scholar (see Traveling Scholars in the **General Graduate Policies** for more information).

Internal credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level or higher courses may be accepted as transfer credits.
- Only courses with a grade of "B-" or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours that are no more than seven years old at the time of transfer may be transferred, unless part of an earned graduate degree.

(Note: Internal thesis or research hours may be used as transfer credits, but may not be used to satisfy formal course work requirements.)

Graduate degree programs are permitted to accept as internal transfer credits up to nine hours of graduate-level course work taken by a student while in undergraduate status at UCF. More than nine hours may be accepted if part of a formally approved accelerated program.

3. Waived credits: 30 credit hours in a program of study that are waived on the basis of an earned master's degree, not based on individual courses.

For students in doctoral programs that do not require a master's degree for admission, students with an earned master's degree may have 30 credit hours waived if the following criteria are met:

- the earned degree is from an accredited institution recognized by UCF or recognized foreign institution;
- the master's degree was earned in the same or a closely related area of study

Transfer Credit Limits

The sum of all transfer and waived credits may not exceed 50% of the total degree requirements of any doctoral degree, with one exception. An exception is possible for graduate students recruited to transfer to UCF when their faculty supervisor is being hired by UCF from another institution. In this case, the student's transfer is requested by his/her faculty supervisor (rather than initiated by the student), often to minimize disruption to the student's research and progress to degree. This exception allows the student to transfer up to 66.7% of the total degree requirements of the doctoral degree as long as the student completes at least 9 hours of graded coursework at UCF, earns Doctoral Candidacy at UCF, completes 15 hours of dissertation at UCF, and meets all other university policy requirements for external transfer credits.

All transfer and waived credits to be used toward a doctoral degree should be finalized by the end of the third major (fall/spring) term of program enrollment (based on full-time enrollment), and must be finalized prior to the change to candidacy status.

The thesis or dissertation credit requirements of a program may not be satisfied by waived or transfer credits.

Students may be required to obtain a Joseph Silny evaluation to obtain transfer or waived credits from recognized international institutions.

For students who do not have a completed graduate degree, the total number of transfer credits are limited to up to 15 credit hours, or up to all of the hours taken to fulfill an earned UCF graduate certificate.

For students in doctoral programs that require a master's degree for admission, the total number of transfer credits are limited to up to 15 credit hours, or up to all of the hours taken to fulfill an earned UCF graduate certificate. Credits from the required, earned master's degree may not be used to satisfy doctoral program requirements.

For students in doctoral programs that do not require a master's degree for admission, students with an earned master's degree from an accredited institution recognized by UCF or recognized foreign institution may:

- waive 30 credit hours of requirements and credits in a program of study; or

- transfer up to 30 credit hours from any earned master's degree in the same or a closely related area of study, provided a course-by-course review is performed.

Students who transfer up to 30 credit hours from any earned master's degree or who have 30 credit hours waived from an earned master's degree may also transfer up to 9 additional graduate credits, provided the sum of all transfer and waived credits does not exceed 50% of the total degree requirements.

Summary Table of Transfer Credit Limits

Student Situation	Specific Requirements	General Requirements
Transfer credits from an earned graduate degree	≤ 9 SCH	Sum may not exceed 9 SCH
External credits	≤ 9 SCH	
Graduate-level credits while in UCF undergraduate status	≤ 9 SCH	
Other internal transfer credits		Total transfer credits may not exceed 50% of program requirements*

*Exceptions:

- May exceed 50% only if all transfer credits are from a single earned UCF graduate certificate; no additional credits may be transferred.
- Transfer of credits from a UCF doctoral program to a master's program within the same discipline.

Accelerated Undergraduate and Graduate Programs

Some programs combine undergraduate and graduate course work in a more seamless educational experience for students, reducing the time spent working on both degrees and providing a challenging educational experience to outstanding undergraduates. These accelerated bachelor's and master's (4+1) programs usually will allow students to complete a bachelor's and master's degree within about five years and are intended for only the most highly qualified undergraduate students.

While students are classified as undergraduate students, they are subject to undergraduate policies. Similarly, when classified as graduate students, they are subject to graduate policies and may qualify for graduate financial support.

The undergraduate requirements listed in the *Graduate Catalog* for specific programs are for informational purposes only. The official requirements are detailed in the *Undergraduate Catalog* and take precedence over what is described here.

Senior Scholars

UCF undergraduates who meet departmental eligibility requirements may enroll in UCF graduate courses and use them toward their undergraduate degree and their graduate program of study upon admission to a UCF graduate program. As Senior Scholars, they are entitled to use up to nine graduate credit hours (more may apply for some accelerated

programs) toward a UCF graduate degree or certificate, provided they have received advisement and written approval to do so from the graduate program director. This permission must be obtained before enrolling in the graduate courses. In addition to approval from the graduate program director, undergraduates must consult their undergraduate adviser to ensure that registration in graduate-level course work will meet their bachelor's degree requirements. The student must receive college and university approval to interrupt the residency requirement. The University Waiver Form can be obtained from the undergraduate department office. Tuition and fees for graduate-level courses are different from undergraduate courses, and it is the student's responsibility to consult with the Office of Student Financial Assistance (<http://finaid.ucf.edu/>) regarding adjustments that might be needed for Bright Futures and other scholarship funding.

Time Limitation for Degree Completion

The student has seven years from the date of admission to the master's program to complete the degree. Students may transfer in coursework according to the [transfer work policy](#), however, courses older than seven years at the time of admission will not be transferred into the student's Program of Study.

Students who anticipate being out for an extended period of three consecutive semesters or longer should apply for a Special Leave of Absence no later than the end of the add/drop period of the third semester of absence. Students who do not maintain continuous enrollment without a Special Leave of Absence (see Continuous Attendance and Special Leave of Absence in the General Graduate Policies) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

Readmission

Master's students should maintain continuous enrollment in their degree program. Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence (see Special Leave of Absence in the General Graduate Policies).

If master's students do not maintain continuous enrollment and have not filed for a special leave of absence (see Continuous Attendance in the General Graduate Policies), they must file for readmission to the university. To file for readmission, the student must complete a new online application. For more information about readmission, refer to the Admissions section of this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break-in graduate education, progress in the degree program, among others. Readmission is not guaranteed.

Other Academic Requirements

Comprehensive Culminating Experience

An appropriate culminating academic experience is required of all master's degree students. It may include a thesis defense, written or oral examination, research report, capstone course, presentation and defense of a portfolio of student work, or other appropriate scholarly activity of a type that has been approved by the Graduate Council that demonstrates that graduate students have engaged in independent learning. An explanation of how the culminating experience promotes independent learning is required in each program's curricular description.

Advisement

Appointment of Committee or Adviser

An academic adviser and advisory committee is required when the student is enrolled in a thesis option and can be useful when there is substantial flexibility in course work. It is the responsibility of the department to appoint an adviser and advisory committee.

Thesis Requirements

The thesis is the culminating or comprehensive experience for those who conduct an original research study as part of a thesis-option program. The thesis consists of a common theme with an introduction and literature review, details of the study, and results and conclusions. Since the work is original, it is very important that care is taken in properly citing ideas and quotations of others. Academic dishonesty in a thesis, research report, and dissertation work may result in termination from the degree program.

An oral defense of the thesis is required. The approved thesis must be written and prepared in accordance with the program, college, and university requirements. Thesis and Dissertation (ETD) describes university requirements and formatting instructions for theses and outlines the steps that graduate students must follow in order to submit their theses electronically to the UCF College of Graduate Studies.

Additionally, the Thesis and Dissertation Office offers workshops to inform graduate students about procedures, deadlines, and requirements associated with preparing a thesis.

Thesis students are required to submit their thesis electronically. Electronic thesis/dissertation (ETD) submissions are archived by the UCF library in a digital format that is widely accessible. The electronic thesis may include video and audio clips as well as other formats that are appropriate for the field of study.

All theses that use research involving human subjects, including surveys, must obtain approval from an independent board, the Institutional Review Board (IRB) prior to starting the research. Graduate students and the faculty that supervise them are required to attend training on IRB policies, so this needs to start well in advance of the research start date. It is imperative that proper procedures are followed when using human subjects in research projects. Information about this process can be obtained from the Office of Research and Commercialization (www.research.ucf.edu). Click on "Compliance" and the *IRB Policy and Procedures Manual* is available. In addition, should the nature of the research or the faculty supervision change since the IRB approval was obtained, then new IRB approval must be sought. Failure to obtain this prior approval could jeopardize receipt of the student's degree.

Students who wish to complete their degree requirements in a given semester must take their oral defense and submit their final electronic copy to the UCF College of Graduate Studies by the dates shown in the Academic Calendar.

Thesis Advisory Committee Membership

A student writing a thesis must have a Thesis Advisory Committee consisting of at least three members who are approved members of the Graduate Faculty. This committee will recommend to the Dean of the college regarding the student's program of study, provide continual guidance for the student, and be the principal mechanism for the evaluation of the student's thesis and performance in any general examinations. At least two members of the Thesis Advisory Committee must be Graduate Faculty, one of whom must serve as the chair of the committee. Graduate Faculty Scholars may serve as a member or co-chair of a thesis advisory committee but may not serve as the chair.

Program areas may specify additional committee membership beyond the minimum of three. These committee members must also be approved members of the Graduate Faculty or Graduate Faculty Scholars. Graduate Faculty members must form the majority of any given committee. Additional information regarding the criteria for serving as a member, co-chair, or chair of a Thesis Advisory Committee is provided in the updated Graduate Faculty policy.

Committee membership must be approved by the program director and submitted to the College of Graduate Studies. All members must be in fields related to the thesis topic. The UCF College of Graduate Studies reserves the right to review appointments to a Thesis Advisory Committee, place a representative on any Thesis Advisory Committee, or appoint a co-chair. A student may request a change in membership of the Thesis Advisory Committee with the approval of the program director and re-submission to the College of Graduate Studies.

All committee members vote on acceptance or rejection of the final thesis. The thesis proposal and final thesis must be approved by a majority of the committee.

Responsibilities of Members of Thesis Advisory Committees

All members of the doctoral advisory committee have responsibilities. See the Graduate Faculty and Graduate Faculty Scholars Policy for this information.

Enrollment in Thesis Hours

After completion of other course requirements, master's level students may be considered full-time if they enroll in at least three credit hours of thesis (XXX 6971) hours only. They subsequently must enroll in three thesis hours each semester continuously (including summers) until the successful completion of minimum program coursework and thesis hours. After which, with the approval of the thesis committee chair or adviser, students may enroll in a minimum of one thesis hour per semester. Students enrolled in thesis hours simultaneously with coursework hours must be enrolled in a combined nine credit hours to be considered full time for the fall and spring semesters, or six credit hours to be enrolled full time in the summer semester. Students who need to interrupt their thesis work for extenuating circumstances must submit a Leave of Absence Form to the College of Graduate Studies. Submission and approval of the form must be obtained prior to the first day of classes for the term of non-enrollment.

Thesis Defense

Thesis defenses will be approved by a majority vote of the Thesis Advisory Committee. Thesis committee members who do not approve of the thesis may choose not to sign the thesis approval sheet. Further approval is required from the Dean or Dean designee and the UCF College of Graduate Studies before final acceptance of the thesis in fulfilling degree requirements.

Virtual Thesis Defenses

Graduate programs may elect to offer the option of a virtual thesis defense (student off-campus defense) upon approval of the program coordinator/director, the department, and the college. Programs that choose to offer the option of a virtual defense must develop and ensure procedures for the implementation of the virtual defense process and procedures must be published in the program's handbook. These procedures should address the form and time for the student's request for a virtual defense, the process for seeking approval, the teleconferencing facilities and equipment to be used, the availability of technical support during the defense, alternative plans if needed, and other relevant issues. The use of a web conferencing platform like Lync or Adobe Connect is recommended as is the preparation of participants and testing of the system prior to the defense date. Students should also seek approval for a virtual defense by the time they file the intent to graduate. It is expected that at minimum the thesis committee chair will be present at the campus location of the public defense. Individual programs may add further restrictions or requirements for students to proceed with virtual defenses.

Review for Original Work

The university requires all students submitting a thesis as part of their graduate degree requirements to first have their electronic documents submitted through iThenticate for advisement purposes and for review of originality. The thesis chair is responsible for scheduling this submission to iThenticate and for reviewing the results from iThenticate with the student's advisory committee. The advisory committee uses the results appropriately to assist the student in the preparation of their thesis.

Before the student may be approved for final submission to the university, the thesis chair must indicate completion of the Review for Original Work through iThenticate by signing the Thesis Approval Form.

Thesis Dissemination

While UCF respects the wishes of students who would like to publish their work and/or apply for patents, it is essential for scholarly research conducted at a university to be available for dissemination. While several options are available for the release of an ETD, it is the goal of the university that all theses be available through the UCF Libraries catalog. Upon uploading the final ETD to the UCF Libraries ETD website, students, in some cases with their advisers, must choose one of the options for the availability of their ETD through UCF. Students with potential patent concerns are required to discuss the following options with their thesis adviser and indicate the availability choice on the Thesis and Dissertation Release Option electronic form, which the student submits in the myUCF Student Center.

For those with no patent or copyright concerns:

- Immediate worldwide dissemination with no restrictions.

For those who have patent issues, dissemination options must be discussed and agreed to with your adviser. Choices are:

- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, then immediate worldwide dissemination with no restrictions.
- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, choosing this option allows the student to make the thesis available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.
 - one year
 - three years*
 - five years*

For those who have copyright concerns, dissemination options are a student decision within the guidelines of individual departments that may have requirements for dissemination. If a department has no guidelines for dissemination, then students are free to choose one of the options below. In general, those in the sciences and engineering will choose one year while students in the arts and humanities may choose longer. Choosing this option allows the student to make the thesis available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.

- one year
- three years*
- five years*

*Does not require thesis adviser signature and approval.

Public Access

Students, faculty, staff, and other interested parties are strongly encouraged to attend thesis final defense sessions. Notices providing date, time, and location of such meetings must be distributed to all academic departments.

These sessions are educational and informative for graduate students and provide an opportunity for colleagues to observe the work of their peers. At the discretion of the Chair of the Thesis Advisory Committee, questions may be invited from the audience. That part of the session involving committee discussion leading to a vote on the acceptance of the work will be closed. Sessions may be recessed briefly to excuse visitors and the candidate before this stage begins.

Conferral of Master's Degrees for Students in Doctoral Degree Programs

A student making satisfactory progress in a doctoral program may be eligible to be awarded a master's degree in the same discipline. The master's degree program and the College of Graduate Studies have the authority to determine whether the doctoral program credits satisfactorily fulfill the master's degree requirements. All requirements for the master's degree must be fulfilled, including passing all examinations and submitting a thesis, if so required. Up to a maximum of 9 SCH of substitutions are allowable, provided that the substitutions are higher-level courses for their precise lower-level counterparts, exclusive of substitutions for thesis hours.

In such cases:

1. The program requirements for the master's degree are governed by the requirement term used for the doctoral degree program.
2. The two degrees are not considered to be part of a formal "dual degree" program and, therefore, are not subject to the policies governing dual degree programs.
3. Courses credited towards the Master's degree are not implemented as transfer credits to another program and therefore fall outside of the transfer credit policy.

The general restriction that no credit hours may be counted for more than two-degree programs applies to these master's degrees as well. Credits from a previously earned master's degree may not be used to fulfill the requirements of a master's degree for a student in a doctoral degree program (a "master's along-the-way").

Education Specialist Programs

Education Specialist (EdS) degrees are awarded in Educational Leadership, Curriculum and Instruction, and School Psychology (which offers a track in School Counseling). The EdS degree provides an opportunity for professionals in leadership positions in an educational environment to receive in-depth academic study. This degree provides the opportunity for the development of a high level of professional proficiency in such areas as instruction, supervision, administration, curriculum, and current research literature. The primary goal of the EdS degree is teaching or acquiring professional proficiency in a specialized education-related area. Because the purpose of the EdS degree may differ from that of the EdD, credit earned in an EdS program is not automatically transferable to a doctoral program. Instead, if a holder of an EdS degree enters a doctoral program at a later date, the doctoral advisory committee will decide how much of the credit earned in the EdS program will be credited toward the doctorate. In any case, only 30 hours taken prior to doctoral status may be transferred into the doctoral program of study.

Specialist Admission Requirements

Admission to the Education Specialist program requires (1) a master's degree in an approved program from an accredited institution recognized by UCF or recognized foreign institution (except in the case of the School Psychology Specialist program, which does not require a master's degree but does have other special admission criteria), (2) a

competitive score on the GRE, (3) other criteria as required by the individual departments, and (4) a recommendation for admission by the appropriate College of Education Graduate Admissions Committee.

Examinations

Educational Leadership majors must successfully complete one 5-hour examination in their major area and one 3-hour examination in an area of specialization. Curriculum and Instruction majors must successfully complete one 3-hour examination in their teaching specialty and one 3-hour examination in the Educational Foundations area. School Psychology (School Psychology Track) students must successfully complete one 3-hour examination during the last semester of enrollment.

Program of Study and Academic Standards

A program of study (i.e., required course work) will be specified by the student's program area and approved by the college. Minimal core requirements for the EdS degree consist of 36 hours beyond the master's degree, which must include a minimum of 12 graduate-level hours in the specialization area, 6 graduate-level hours in research/statistics, and additional core requirements that are specific to each of the EdS degrees. An approved program of study must be on file with the College of Graduate Studies by the end of the student's second major term. A graduate status GPA of 3.0 must be maintained in all graduate course work taken at UCF since admission into the specialist program. All academic standards which apply to master's students will also apply to specialist students.

Transfer of Credit

Any credits taken prior to the term of admission to your program and used to satisfy specific program requirements are considered graduate transfer credits.

The acceptance of transfer credits in a program of study must be approved by the program. Graduate programs may stipulate additional constraints beyond those included in the university transfer policy.

All transfer credits toward a master's or specialist degree should be finalized by the end of the second term of program enrollment (based on full-time enrollment) and must be finalized by the end of the term prior to the term of expected graduation.

The thesis credit requirement of a program may not be satisfied by transfer credits.

Students with international transfer credits from recognized international institutions may be required to obtain a Joseph Silny evaluation.

No more than 9 credit hours from a previously earned degree may be used to satisfy the requirements of a specialist's degree, except as part of a formally approved accelerated bachelor's/master's program.

The total number of transfer credits may not exceed 50% of program requirements, except under two circumstances.

1. UCF graduate certificate credits: up to all of the hours taken to fulfill an earned UCF graduate certificate can be used toward a graduate degree within the same or closely related discipline. If the number of transfer credits for an earned UCF graduate certificate is equal to or exceeds 50% of program requirements, additional transfer credits are not allowed.
2. Transfer of credits from a UCF doctoral program to a master's program (other than master's degrees obtained along the way to a doctoral degree): transfer of credits that exceed 50% of program requirements is at the discretion of the program and requires the approval of the Appeals Committee.

Two different types of transfer credit can be brought into a specialist's program of study.

1. **External transfer credits:** graduate-level course credits completed at an accredited institution recognized by UCF (excluding UCF) or recognized international institution.

External credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level or higher courses may be accepted as transfer credits.
- Only courses with a grade of "B-" or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours that are no more than seven years old at the time the degree is conferred may be transferred, unless part of an earned graduate or professional degree.
- Only formal course work hours, but not thesis or research hours, may be used as transfer credits (not petitionable).

External transfer credits are limited to up to 9 credit hours.

2. **Internal transfer credits:** graduate-level course credits completed
 - a. at UCF prior to enrolling in the program for which the degree is sought, including those taken in undergraduate status at UCF as part of a Senior Scholar or accelerated program; or
 - b. as a Traveling Scholar (see Traveling Scholars in the General Graduate Policies for more information).

Internal credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level courses may be accepted as transfer credits.
- Only courses with a grade of "B-" or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours that are no more than seven years old at the time the degree is conferred may be transferred, unless part of an earned graduate degree.

Graduate degree programs are permitted to accept up to nine hours of graduate-level course work taken by a student while in undergraduate status at UCF. More than nine hours may be accepted if part of a formally approved accelerated program.

The sum of transfer credits from an earned graduate or professional degree, external transfer credits, and transfer credits from graduate-level course work taken by a student while in undergraduate status at UCF may not exceed nine credit hours.

Summary Table of Transfer Credit Limits

Student Situation	Specific Requirements	General Requirements
Transfer credits from an earned graduate degree	≤ 9 SCH	Sum may not exceed 9 SCH
External credits	≤ 9 SCH	
Graduate-level credits while in UCF undergraduate status	≤ 9 SCH	
Other internal transfer credits		Total transfer credits may not exceed 50% of program requirements*

*Exceptions:

- May exceed 50% only if all transfer credits are from a single earned UCF graduate certificate; no additional credits may be transferred.
- Transfer of credits from a UCF doctoral program to a master's program within the same discipline.

Time Limitation and Continuous Attendance

The student has seven years from the date of admission (prerequisite, articulation, and foundation courses are exempt) to the specialist program to complete the degree. No course older than seven years, at graduation, may be used in the program of study for a specialist degree. Students who do not maintain continuous enrollment (missing enrollment at the university for a period of three consecutive semesters) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

Readmission

Specialist students should maintain continuous enrollment in their degree program. Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence (see Special Leave of Absence in the General Graduate Policies section).

If specialist students do not apply for a Special Leave of Absence and do not maintain continuous enrollment (see Continuous Attendance in the General Graduate Policies section), they must file for readmission to the university. To file for readmission, the student must complete a new online Application. For more information about readmission, refer to the Admissions section of this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break in graduate education, progress in the degree program, among others. Readmission is not guaranteed.

Doctoral Program Policies

Doctoral Admission Requirements

Eligibility for admission to a doctoral program is limited to superior students who have demonstrated intellectual ability, high achievement, and adequate preparation for advanced study and research in a chosen field.

Minimum university standards for admission can be found in the Admissions section of the catalog. Meeting minimum university admission standards may not satisfy doctoral program admission requirements. Programs often require additional or higher criteria. See the Graduate Programs section of the catalog for specific program requirements.

Additionally, all applicants to doctoral programs must meet the following specific requirements:

Each applicant to a doctoral degree program shall present scores that are acceptable for the program to which the student is applying on the Graduate Record Examination (verbal, quantitative, and writing), or an equivalent measure on the GMAT, whichever is deemed most appropriate to the program. Students, including international students, who already have a graduate degree obtained from an accredited institution recognized by UCF in the same or in a related area are not required to take the Graduate Record Examination or GMAT unless it is required by the program.

Course Requirements

The primary objective of doctoral study is to educate students to a point of excellence in conducting, disseminating, and applying scholarly research, with the explicit goal of making original, substantive contributions to their degree discipline. The advanced nature of doctoral education requires student participation, debate, evaluation, and discussion of diverse ideas and approaches. Careful analysis, independent research, and greater understanding and application of ideas are also expected.

The doctoral degree program requirements will consist of core and elective courses, seminars, directed and doctoral research, independent study, and dissertation research.

- Each doctoral program of study will include a minimum of 72 semester hours of graduate credit beyond the baccalaureate degree or a minimum of 42 semester hours of graduate credit beyond the master's degree; these graduate credits must be taken as part of an approved graduate program of study. Some programs require considerably more than the minimum of 72 hours because of the nature of the discipline and the standards of the associated profession.
- All graduate credits in a doctoral program must be at 5000 level or higher.
- At least one-half of the credit hours used to meet program requirements must be in 6000-level or 7000-level courses, including the allowed number of research and dissertation hours.
- At least 50 percent of the credits offered for the degree are expected to be derived from a single field of concentration (that is, from one department). However, programs that are interdisciplinary in nature may be exempt from this policy upon approval from the Graduate Council Curriculum Committee.
- Only graduate-level credit with a grade of "C-" or higher may be used to satisfy degree requirements.
- A university-wide minimum of at least 27 hours of formal coursework exclusive of Independent Study (XXX 6908), dissertation and research is required for all doctoral programs; some programs require a greater number of formal coursework hours.
- A university-wide minimum of at least 15 hours of dissertation credits is required for all doctoral programs, although some programs require a greater number of dissertation hours.
- The dissertation hour requirements may only be satisfied by enrollment in dissertation hours.

Course Levels

6000- and 7000-Level Courses—A minimum of 36 credit hours (including courses taken in a master's program) must be in 6000-level and 7000-level courses, which are designed, respectively, for graduate students and doctoral students only. For students with waived hours from an earned master's, this amount is at least one-half of the program hours remaining after the waived hours are applied.

Transfer of Credit

Types of Transfer Credit

Graduate coursework completed prior to enrolling in a graduate program at UCF may be eligible for transfer or waiver into the graduate program. Graduate students are expected to make transfer requests (and include course syllabi) with their graduate program director during the first semester of enrollment in the graduate program. For transfer credits, program faculty will determine the equivalency of the courses requested by reviewing the syllabi. Only courses and earned master's degree credits approved by the graduate program will be moved into a program of study.

Below is the university transfer policy for the 3 types of transfer credits. Graduate programs may stipulate additional constraints beyond those included in the university transfer policy.

1. External transfer credits: course credits completed at a regionally accredited institution (excluding UCF) or recognized international institution.

External transfer credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level courses may be accepted as transfer credits.
- Only courses with a grade of "B-" or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours that are no more than seven years old at the time of transfer, unless part of an earned graduate degree.
- Only formal course work hours, but not thesis or research hours, may be used as transfer credits (not petitionable).

External transfer credits are limited to up to 9 credit hours for students who do not have a completed graduate degree or for students in doctoral programs that require a master's degree for admission.

2. Internal transfer credits: graduate-level course credits completed at UCF prior to enrolling in the program for which the degree is sought, including those taken in undergraduate status at UCF as part of a Senior Scholar or accelerated BS-MS program; or as a Traveling Scholar (see Traveling Scholars in the General Graduate Policies for more information).

Internal credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level or higher courses may be accepted as transfer credits.
- Only courses with a grade of "B-" or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours that are no more than seven years old at the time of transfer may be transferred, unless part of an earned graduate degree.

(Note: Internal thesis or research hours may be used as transfer credits, but may not be used to satisfy formal course work requirements.)

Graduate degree programs are permitted to accept as internal transfer credits up to nine hours of graduate-level course work taken by a student while in undergraduate status at UCF. More than nine hours may be accepted if part of a formally approved accelerated program.

3. Waived credits: 30 credit hours in a program of study that are waived on the basis of an earned master's degree, not based on individual courses.

For students in doctoral programs that do not require a master's degree for admission, students with an earned master's degree may have 30 credit hours waived if the following criteria are met:

- the earned degree is from a regionally accredited institution or recognized foreign institution;
- the master's degree was earned in the same or a closely related area of study

Transfer Credit Limits

The sum of all transfer and waived credits may not exceed 50% of the total degree requirements of any doctoral degree, with one exception. An exception is possible for graduate students recruited to transfer to UCF when their faculty supervisor is being hired by UCF from another institution. In this case, the student's transfer is requested by his/her faculty supervisor (rather than initiated by the student), often to minimize disruption to the student's research and progress to degree. This exception allows the student to transfer up to 66.7% of the total degree requirements of the doctoral degree as long as the student completes at least 9 hours of graded coursework at UCF, earns Doctoral

Candidacy at UCF, completes 15 hours of dissertation at UCF, and meets all other university policy requirements for external transfer credits.

All transfer and waived credits to be used toward a doctoral degree should be finalized by the end of the third major (fall/spring) term of program enrollment (based on full-time enrollment), and must be finalized prior to the change to candidacy status.

The thesis or dissertation credit requirements of a program may not be satisfied by waived or transfer credits.

Students may be required to obtain a Josef Silny or WES evaluation to obtain transfer or waived credits from recognized international institutions.

For students who do not have a completed graduate degree, the total number of transfer credits are limited to up to 15 credit hours, or up to all of the hours taken to fulfill an earned UCF graduate certificate.

For students in doctoral programs that require a master's degree for admission, the total number of transfer credits are limited to up to 15 credit hours, or up to all of the hours taken to fulfill an earned UCF graduate certificate. Credits from the required, earned master's degree may not be used to satisfy doctoral program requirements.

For students in doctoral programs that do not require a master's degree for admission, students with an earned master's degree from a regionally accredited institution or recognized foreign institution may:

- waive 30 credit hours of requirements and credits in a program of study; or
- transfer up to 30 credit hours from any earned master's degree in the same or a closely related area of study, provided a course-by-course review is performed.

Students who transfer up to 30 credit hours from any earned master's degree or who have 30 credit hours waived from an earned master's degree may also transfer up to 9 additional graduate credits, provided the sum of all transfer and waived credits does not exceed 50% of the total degree requirements.

Summary Table of Transfer Credit Limits

Student Situation	Specific Requirements	General Requirements
Students without an earned master's degree; students in doctoral programs that require a master's degree for admission		
External credits	≤ 9 SCH	
Graduate-level credits while in UCF undergraduate status	≤ 9 SCH	Sum may not exceed 15 SCH*
Other internal credits	≤ 15 SCH	
Students with an earned master's degree in doctoral programs that do not require a master's degree for admission		
Waived credits from earned degree in the same or related discipline (internal or external)	30 SCH	Sum may not exceed 50% of program requirements

Transfer credits from earned degree in the same or related discipline (internal or external) ≤ 30 SCH

Other external credits ≤ 9 SCH

Graduate-level credits while in UCF undergraduate status ≤ 9 SCH

Other internal transfer credits ≤ 15 SCH

*Exceptions:

- Up to 66.7% of program requirements for students transferring with their faculty supervisors being hired from another institution.

Academic Integrity Training

All students newly admitted to doctoral programs must complete training designed to inculcate an awareness and understanding of the fundamental issues of academic integrity and the responsible conduct of research (RCR) in a manner that is consistent with federal regulations. This required training includes: (1) the online Collaborative Institutional Training Initiative (CITI) "Responsible Conduct of Research" training module in the appropriate disciplinary area; and (2) four face-to-face ethics/RCR workshops coordinated by the College of Graduate Studies and the Office of Research and Commercialization, or an approved alternative training offered as a program requirement for all students in the program. Students in a program that has approved alternative ethics/RCR training must still complete the online CITI Responsible Conduct of Research training in the appropriate disciplinary area.

The workshops and CITI training modules are open to all UCF graduate students and postdoctoral fellows and associates. For the ethics/RCR workshops, priority is given to doctoral students who are required to complete these workshops prior to advancement to candidacy.

Deadlines:

1. The four face-to-face ethics/RCR training requirements must be completed prior to a student's advancement to candidacy.
2. The CITI module should be completed by the end of a student's second major (Fall/Spring) term of enrollment.
3. CITI and RCR training requirements must be completed in a manner that is consistent with federal regulations.

A doctoral student who has not completed the required training in academic integrity and the responsible conduct of research will not be advanced to candidacy.

Workshops:

The College of Graduate Studies and the Office of Research offer a series of workshops to enable students to fulfill the four workshop requirement. Students must take at least two workshops from a set of core workshops that focus on: personal integrity in the classroom; plagiarism; data management (including fabrication, falsification, and confidentiality); authorship and peer review; mentor and trainee responsibilities; collaborative research; and conflicts of interest. Students must complete two additional workshops from among the set of core workshops or a series of additional workshops, which will provide more specialized training such as human subjects, animal welfare; and other areas of ethical concern unique to a discipline or research area.

Programs may develop alternatives for the training workshops that focus on issues of particular relevance to their specific disciplines and fields, or that better accommodate the schedules of their students. Alternative training must be offered as a program requirement for all students in the program. The training content must be specified in the

syllabus/syllabi of required formal courses and include the core topics listed above, as well as other topics appropriate to the specific discipline. Alternative training content must be submitted for review and approval by the College of Graduate Studies and the Office of Research prior to student attendance.

Further information concerning workshop sessions and registration and how to complete the CITI training module may be found at Academic Integrity Training.

Time Limitation and Continuous Enrollment

A student has seven years from the date of admission to the doctoral program to earn a doctoral degree. This is not affected by earning a master's degree along the way.

Extenuating circumstances may arise that hinder a student's progress towards program completion and the ability to maintain continuous enrollment. If such a need arises, the student may petition for a Special Leave of Absence. Leaves are considered for medical (e.g., illness, injury) or non-medical (e.g., family needs, military deployment).

Students should be proactive in maintaining accurate records with the university and petition for a Special Leave of Absence prior to the need. When this is not possible, students should do so promptly after the need arises. Students are required to complete and submit the Leave of Absence form with all relevant supporting documents.

Students may be granted a Special Leave of Absence for up to 6 consecutive academic terms. Course registration during the granted leave is not required. Time spent in a Special Leave of Absence that was granted Summer 2018 or later can add a **maximum of 3 terms** (1 academic year) to the total time limitation for degree completion

- 1 term of SLoA=1 term added to the time to degree completion
- 3 terms of SLoA=3 terms added to the time to degree completion
- ≥ 4 terms of SLoA=3 terms added to the time to degree completion
- SLoA approved prior to summer 2018 will fall under the old version of the policy. SLoA approved summer 2018 or later will follow the new policy. Students that fall under the old version of the policy can petition the 7-year Policy if extreme circumstances of SLoA cause delay beyond 7 years to completion.

Students who do not maintain continuous enrollment without a Special Leave of Absence ([see Continuous Attendance and Special Leave of Absence](#) in the General Graduate Policies) or exceed the period allowed in the leave request must file for readmission to the university.

Readmission

If doctoral students do not maintain continuous enrollment (see Continuous Attendance in the General Graduate Policies), they must file for readmission to the university. To file for readmission, the student must complete a new online application. For more information about readmission, refer to the Admissions in this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break-in graduate education, progress in the degree program, among others. Readmission is not guaranteed.

Conferral of Master's Degrees for Students in Doctoral Degree Programs

A student making satisfactory progress in a doctoral program may be eligible to be awarded a master's degree in the same discipline. Policies concerning these degrees can be found under Master's Program Policies.

To avoid confusion of terminology for examinations, all programs should use the following terms:

Qualifying Examination. Eligibility to continue a doctoral program should be limited to superior students who have demonstrated intellectual ability, high achievement, and adequate preparation for advanced study and research in a chosen field. The decision to allow a student continuing progress toward a doctorate is made by the graduate committee of the program area concerned on the basis of the qualifying examination (optional by programs) and/or other criteria as specified by the individual program area. This exam is normally given within the first year of the doctoral program. This is a written examination and is permanently filed in the student's records in the program. Programs have their own requirements as to how many times this exam can be repeated.

Candidacy Examination. This exam takes place prior to admission to Candidacy Status. This is a written examination and is permanently filed in the student's permanent records. It is normally taken near the end of completion of coursework and must be passed before being allowed to enroll in doctoral dissertation (XXX 7980) hours. Programs have their own requirements, which are explained in their graduate student handbooks, as to how many times this exam can be repeated.

Dissertation Proposal Examination. After passing the general Candidacy Examination, the student will write and defend a Dissertation Proposal in an oral examination. Programs have their own requirements as to how many times this exam can be repeated. All materials including the approved proposal and other agreements will be kept in the student's file in the program.

Dissertation Defense. This is an oral examination (or defense) of the dissertation.

Examination Committee

In some programs, a doctoral examination committee will be formed consisting of several faculty members representing the appropriate disciplines and approved by the Dean or college designee to administer qualifying and/or candidacy examinations. In many cases, this committee will consist of the program graduate committee. All members will evaluate and vote as to whether students have successfully completed the exams.

Candidacy

Admission to Candidacy

A student must demonstrate his or her readiness for the PhD program by successfully completing the candidacy examination before admission to full doctoral status and enrollment into dissertation hours. The Candidacy Examination should be taken when the student is nearing the end of coursework. The exam is administered by the members of the student's dissertation advisory committee or another appropriate committee appointed by the program. Admission to candidacy will be approved by the program director and the college coordinator and forwarded to the UCF College of Graduate Studies for status change. Only after admission to candidacy may a student register for doctoral dissertation hours (XXX 7980). Effective beginning Summer 2019, students must have passed candidacy and have the candidacy and dissertation advisory committee documentation received and processed by the College of Graduate Studies by the date listed in the academic calendar in order to enroll in dissertation hours for that term.

Doctoral students admitted to candidacy are expected to enroll in dissertation hours and to devote full-time effort to conducting their dissertation research and writing the required dissertation document. Students in doctoral candidacy must continuously enroll in at least three hours of dissertation coursework (XXX 7980) each semester (including summer) until the dissertation is completed.

Candidacy Examination

The purpose of the Candidacy Examination is for the student to demonstrate a strong foundation of knowledge within the specific discipline, and the ability and preparation to conduct independent scholarly research. The committee may examine a broad range of appropriate capabilities, including theory, bibliography, research methodology, and the evaluation of preliminary research, when appropriate. The examination must have a written component; it also may include an oral defense of a written report or dissertation proposal. All written examination materials will be kept in the student's file in the program.

Dissertation Requirements

Dissertations are required in all PhD programs. For EdD programs, some tracks require a dissertation, while others require a dissertation-in-practice (see the program information for a description of a dissertation-in-practice). The dissertation consists of an original and substantial research study designed, conducted, and reported by the student with the guidance of the Dissertation Committee. The written dissertation must include a common theme with an introduction and literature review, details of the study, and results and conclusions prepared in accordance with program and university requirements. The dissertation is expected to represent a significant contribution to the discipline. Since this work must be original, it is very important that care is taken in properly citing ideas and quotations of others. Failure to do so is academic dishonesty and subject to termination from the program without receiving the degree. An oral defense of the dissertation is required.

Enrollment in Dissertation Hours

The university requires all doctoral students to take a minimum of 15 credit hours of doctoral dissertation hours; however, specific programs may require more than this minimum. Dissertation research is considered to be a full-time effort, and post-candidacy enrollment in at least three doctoral dissertations (XXX 7980) credit hours constitutes full-time graduate status. Doctoral students who have passed candidacy and have begun taking doctoral dissertation hours (XXX 7980) must enroll in at least three dissertation hours each semester (including summers, without skipping a semester) and continue doing so until they complete and successfully defend the dissertation. Students wishing to enroll in fewer than 3 credit hours must have approval from their advisor. Students who need to interrupt their dissertation work for extenuating circumstances must submit a Leave of Absence Form to the College of Graduate Studies. Submission and approval of the form must be obtained prior to the first day of classes for the term of non-enrollment.

Dissertation Advisory Committee Membership

Doctoral students must have a Dissertation Advisory Committee prior to advancement to candidacy status. The Committee will consist of a minimum of four members who are approved members of the Graduate Faculty or Graduate Faculty Scholars (see Graduate Faculty). At least three members must be Graduate Faculty, one of whom must serve as the chair of the committee. One member must be from either outside the student's department at UCF (or college, if a college-wide program) or outside the university. The Graduate Program Committee may specify additional advisory committee membership beyond the minimum of four. These additional advisory committee members must also be approved members of the Graduate Faculty or Graduate Faculty Scholars. Graduate Faculty members must form the majority of any given committee.

Committee membership must be approved by the program director and submitted to the College of Graduate Studies. All members must be in fields related to the dissertation topic. The UCF College of Graduate Studies reserves the right to review appointments to a dissertation advisory committee, place a representative on any dissertation advisory committee, or appoint a co-chair. A student may request a change in membership of the dissertation advisory committee with the approval of the program director and re-submission to the College of Graduate Studies.

All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the committee.

Responsibilities of Members of Doctoral Advisory Committees

All members of the doctoral advisory committee have responsibilities. See the Graduate Faculty and Graduate Faculty Scholars Policy for this information.

Dissertation Preparation

Thesis and Dissertation (ETD) describes university requirements and formatting instructions for dissertations and outlines the steps graduate students must follow in order to submit their dissertations electronically to the UCF College of Graduate Studies. The Thesis and Dissertation Office offers online and face-to-face workshops to inform graduate students about procedures, deadlines, and requirements associated with preparing a dissertation. Students who have just passed Candidacy are strongly encouraged to visit the online workshop.

Dissertation students will submit their dissertations electronically. Electronic thesis/dissertation (ETD) submissions will be archived by the UCF library in digital format and will be more widely accessible. In addition, students may use video and audio clips as well as other formats that may be appropriate for their field of study.

All dissertations that use research involving human subjects, including surveys, must obtain approval from an independent board, the Institutional Review Board (IRB), for this prior to starting the research. Graduate students and the faculty that supervise them are required to attend training on IRB policies, so this needs to start well in advance of the research start date. It is imperative that proper procedures are followed when using human subjects in research projects. Information about this process can be obtained from the Office of Research and Commercialization (www.research.ucf.edu). Click on "Compliance" and the *IRB Policy and Procedures Manual* is available. In addition, should the nature of the research or the faculty supervision change since the IRB approval was obtained, then new IRB approval must be sought. Failure to obtain this prior approval could jeopardize receipt of the student's degree.

Students who wish to complete their degree requirements in a given semester must take their oral defense and submit their dissertation to the UCF College of Graduate Studies by the dates shown in the Academic Calendar.

Dissertation Defense

The dissertation defense is an oral presentation and defense of the written dissertation describing the student's research. The advisory committee will evaluate and judge the dissertation defense. Successful students must demonstrate that they are able to conduct and report original independent research that contributes substantially to the discipline in which they study. The defense is a formal academic requirement and should be accorded respect and dignity, and thus, no refreshments or other distractions should be served during the defense.

The dean of the college or his/her designee will normally attend all dissertation defenses. Dissertations will be approved by a majority vote of the dissertation advisory committee. Further approval is required from the Dean or Dean designee and the UCF College of Graduate Studies before final acceptance of the dissertation in fulfilling degree requirements.

Dissertation Virtual Defense

Graduate programs may elect to offer the option of a virtual **dissertation** defense (student off-campus defense) upon approval of the program coordinator/director, the department, and the college. Programs that choose to offer the option

of a virtual defense must develop and ensure procedures for the implementation of the virtual defense process and procedures must be published in the program's handbook. These procedures should address the form and time for the student's request for a virtual defense, the process for seeking approval, the teleconferencing facilities and equipment to be used, the availability of technical support during the defense, alternative plans if needed, and other relevant issues. Use of a web conferencing platform like Lync or Adobe Connect is recommended as is the preparation of participants and testing of the system prior to the defense date. Students must also seek approval for a virtual defense by the time they file the intent to graduate. It is expected that at minimum the dissertation committee chair will be present at the campus location of the public defense. Individual programs may add further restrictions or requirements for students to proceed with virtual defenses.

Review for Original Work

The university requires all students submitting a dissertation as part of their graduate degree requirements to first have their electronic documents submitted through iThenticate for advisement purposes and for review of originality. The dissertation chair is responsible for scheduling this submission to iThenticate and for reviewing the results from iThenticate with the student's advisory committee. The advisory committee uses the results appropriately to assist the student in the preparation of their dissertation.

Before the student may be approved for final submission to the university, the dissertation chair must indicate completion of the Review for Original Work through iThenticate by signing the Dissertation Approval Form.

Dissertation Dissemination

While UCF respects the wishes of students who would like to publish their work and/or apply for patents, it is essential for scholarly research conducted at a university to be available for dissemination. While several options are available for the release of an ETD, it is the goal of the university that all dissertations be available through the UCF Libraries catalog. Students with potential patent concerns are required to discuss the following options with their dissertation adviser and indicate the availability choice on the Thesis and Dissertation Release Option electronic form, which the student submits in the myUCF Student Center.

For those with no patent or copyright concerns:

- Immediate worldwide dissemination with no restrictions.

For those who have patent issues, dissemination options must be discussed and agreed to with your adviser. Choices are:

- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, then immediate worldwide dissemination with no restrictions.
- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, choosing this option allows the student to make the dissertation available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.
 - one year
 - three years*
 - five years*

For those who have copyright concerns, dissemination options are a student decision within the guidelines of individual departments that may have requirements for dissemination. If a department has no guidelines for dissemination, then students are free to choose one of the options below. In general, those in the sciences and engineering will choose one year while students in the arts and humanities may choose longer. Choosing this option allows the student to make the dissertation available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.

- one year
- three years*
- five years*

*Does not require dissertation adviser signature and approval.

Public Access

Students, faculty, staff, and other interested parties are strongly encouraged to attend dissertation final defense sessions. Notices providing the date, time, and location of such meetings must be distributed to all academic departments.

These sessions are educational and informative for graduate students and provide an opportunity for colleagues to observe the work of their peers with students. At the discretion of the Chair of the Committee, questions may be invited from the audience. That part of the session involving committee discussion leading to a vote on the acceptance of the work will be closed. Sessions may be recessed briefly to excuse visitors and the candidate before this stage begins.

Financial Information

Graduate education provides personal enrichment and a deeper understanding of some aspect of the world around us but also is an important investment in the future of a community. It is an investment on the part of the student that opens the door to new careers, wider choices of work assignments, and greater opportunities for advancement to higher paying jobs. It is also an investment on the part of the university and the community as a whole in the training of the next generation of workers, leaders, educators, innovators, and contributing citizens. Besides the time investment, a graduate student has financial expenses that include tuition and education-related fees, instructional supplies, and living expenses. UCF helps to offer the opportunities provided by graduate education at a very reasonable cost.

For a significant portion of the graduate student population at UCF, the process of learning and being trained for disciplines that require graduate-level education includes participating in the research, teaching, and community-building missions of the University. This partnership between graduate students and the University is recognized by both the University and the State of Florida by means of financial support in the form of fellowships, tuition remission, and research and teaching assistantships. Many of the assistantship appointments represent professional opportunities as well as a means of financial support.

To qualify for fellowships, tuition remission, or assistantships, graduate students are expected to be enrolled full-time in a degree program. Assistantship appointments require the student to be engaged in paid appointments that promote the missions of the University. The details of these requirements are described in the Financial Support Requirements, as well as in the fellowships, assistantships, tuition support, and health insurance pages in the Financial Information section of this catalog.

- Financial Support Requirements
- Graduate Fellowships
- Graduate Assistantships
- Graduate Tuition Support
- Paid Health Insurance Coverage
- Student Financial Assistance
- Tax Obligations
- Tuition and Fees
- Costs and Residency

Financial Support Requirements

Graduate students must meet all of the following requirements each term that they receive fellowships, assistantships, or tuition remission:

- Student must be accepted as a graduate student in a degree program and enrolled full-time. See Full-time Enrollment Requirements. Nondegree-seeking students and students who are only admitted to a graduate certificate program are ineligible for most UCF financial support.
- Graduate students enrolled in fully online programs that exempt them from paying campus-based fees are not eligible for graduate assistantships or for university fellowships offered through the College of Graduate Studies.
- Students that have received a Deferred Action for Childhood Arrivals (DACA) from the U.S. Department of Homeland Security can be considered for scholarships from private donors or for private loans but are not eligible for institutional aid.
- Students must maintain good academic standing. See Academic Progress and Performance.
- In order to receive tuition remission, students must be either graduate assistants (position codes 9181-9184, 9186, or 9187), University Fellows, or be admitted as part of a formal, written University-approved agreement. The graduate assistant category includes the following types of appointments: Graduate Assistant (GA, Position Code 9186); Graduate Teaching Assistant (GTA, Position Code 9184); Graduate Teaching Associate (GTA, Position Code 9183); Graduate Teaching Assistant-Grader (GTA, Position Code 9187); Graduate Research Assistant (GRA, Position Code 9182); and Graduate Research Associate (GRA, Position Code 9181). Full tuition support requires a qualifying university fellowship or a 0.5 FTE appointment (20 hours per week) and stipend level of at least \$12,000 (\$6,000 in fall and spring) for doctoral students or \$10,000 (\$5,000 in fall and spring) for master's students for the academic year. Half tuition support requires a 0.25 FTE appointment (10 hours per week) and a stipend level of at least \$6,000 (\$3,000 in fall and spring) for doctoral students or \$5,000 (\$2,500 in fall and spring) for master's students for the academic year.
- Tuition remission will be provided only for courses that are part of the student's program of study and necessary for progress toward the student's graduate degree.
- Graduate fellowships have additional requirements. See Graduate Fellowships.

Graduate Fellowships

The UCF College of Graduate Studies awards more than \$2 million in university fellowships to provide financial support for the graduate education of over 300 graduate students each year. These fellowships are funded by university appropriations, endowments, and other outside sources.

Fellowships are awarded on the basis of academic merit to the most highly qualified applicants. Some fellowships are available only to applicants who are underrepresented in higher education in the state of Florida. For eligibility, students must be accepted as a graduate student in a degree program and enrolled full-time. See Full-time Enrollment Requirements. Students who are interested in being considered for a fellowship are strongly encouraged to apply for admission by the priority date and to communicate their interest in receiving a fellowship to their intended graduate program. Most fellowships require Graduate Program Directors to nominate students to the College of Graduate Studies through the college and program offices. All admitted graduate students are automatically considered in this nomination process. Other fellowships, however, require students to fill out a fellowship application. For more details about graduate fellowships, visit Fellowships.

International students receiving fellowships are subject to up to 14 percent withholding on their fellowship payments. International students must obtain a Social Security Number (SSN) prior to receiving payment of a fellowship. More information on this issue can be obtained from the Global UCF (<https://global.ucf.edu/>).

General Fellowship Requirements

- Students usually receive only one UCF fellowship per term, and students are eligible to receive a given fellowship only once.
- Fellowships are only awarded to highly qualified individuals who are admitted, degree-seeking graduate students (regular or conditional admission) by the time the fellowship is awarded. Students on conditional admission status may be offered a fellowship, but must submit documentation required for regular admission status prior to fellowship disbursement. Students on provisional and restricted admission status, nondegree-seeking (postbaccalaureate) students, and graduate certificate students are not eligible to receive most fellowships.
- All fellowships require students to maintain full-time graduate enrollment during the term of the funding. Failure to maintain full-time graduate enrollment may result in the cancelation of the fellowship and could result in students owing money back to the university. See Full-time Enrollment Requirements.
- Fellowship students must make acceptable academic progress during each term of the award or the fellowship will be canceled. See Academic Progress for Fellowship Recipients below.
- Fellowship students must participate in events scheduled for the university fellowship community and in selected service activities for the UCF community. Additional information about this requirement is found at for UCF Fellows.
- Some fellowships have additional requirements, which are described in the fellowship details found at Fellowships.

Students Working Full Time

Students who are employed full-time in on-campus or off-campus jobs may not receive university fellowships, as UCF fellowship recipients are expected to be primarily focused on graduate study and related activities on campus (e.g., graduate assistantships, research activities, participation in professional organizations).

In addition, students receiving tuition assistance from another source (UCF Employee Tuition Voucher, State Employee Tuition Voucher, etc.) may not also receive a UCF graduate tuition waiver. Graduate assistants and fellows are not eligible to receive UCF Employee Tuition or State Employee Tuition Vouchers.

Academic Progress for Fellowship Recipients

Fellowship recipients are required to be in good standing and to make satisfactory academic progress to continue to receive a fellowship award. To be considered in good standing, fellowship recipients are required to maintain the standards listed below.

- Fully accepted into a graduate degree program at UCF.
- Maintain full-time enrollment as a degree-seeking graduate student during each term of the award. See Full-time Enrollment Requirements.
- Maintain a graduate status GPA of 3.0 each term of the award.
- Receive satisfactory grades in all classes, and no grade of incomplete ("I"). (Unsatisfactory grades are C, C+, C-, D, F, and U.)

Failure to meet any one of these standards will result in the cancellation of the fellowship. The College of Graduate Studies may grant rare exceptions to this policy after reviewing the evidence of mitigating circumstances presented by the student and the graduate program.

Graduate Fellowships

The following list identifies the fellowships offered by the university and the funding programs in which the university participates. Those for which the College of Graduate Studies provides a graduate tuition waiver are marked (TW). For the most current information regarding fellowships, students are encouraged to consult Fellowships, as well as Funding.

- UCF Trustees Doctoral Fellowship (TW)
- UCF Presidential Doctoral Fellowship (TW)
- UCF ORCGS Doctoral Fellowship (TW)
- UCF Multidisciplinary Doctoral Fellowship (TW)
- UCF Graduate Dean's Dissertation Completion Fellowship (TW)
- UCF MFA Provost's Graduate Fellowship (TW)
- UCF Graduate Dean's Fellowship
- McKnight Doctoral Fellowship (TW)
- UCF Graduate RAMP Fellowship (TW)
- UCF Graduate McNair Fellowship (TW)
- Summer Mentoring Fellowship (TW)
- Delores A. Auzenne Fellowship
- Florida A&M University Feeder Program (TW)
- UCF Graduate Presentation Fellowship

Fellowship Disbursement

Most graduate fellowships are disbursed through the Office of Student Financial Assistance, based on instructions provided by the UCF College of Graduate Studies. Student Financial Assistance begins disbursing fellowship funds and other aid after the registration and Drop/Add period has ended (usually the second week into the term). For the portion of tuition charges covered by the fellowship, the tuition payment deadline will be deferred until fellowship disbursement. If students are not enrolled in full-time hours by the end of the Drop/Add period, their fellowship may be canceled. Students are responsible for paying the balance of tuition and fees by the Payment Deadline published in the UCF Academic Calendar. Fellowship payment will first be applied to the student's account balance. Remaining funds will be disbursed to the student either as a check mailed to the current mailing address of record or as a direct deposit into the student's account if the student has provided the bank information in myUCF.

Students can check to see if the fellowship payment has been applied to their account through myUCF. In myUCF, select "Student Accounts" to see awards that have been set up to pay against your account.

Graduate Assistantships

Graduate students often receive assistantships in their departments or other university offices while pursuing graduate studies. Graduate assistantship students may teach, conduct research, or perform other tasks that contribute to the student's professional development.

Graduate students may become Graduate Teaching Associates, Assistants, or Graders (GTAs), Graduate Research Associates or Assistants (GRAs), or Graduate Assistants (GAs). For eligibility, students must be accepted as a graduate student in a degree program and be enrolled full-time. Graduate students enrolled fully online program that exempts them from paying campus-based fees are not eligible for graduate assistantships. See Full-time Enrollment Requirements.

Both half- and full-stipend assistantships are available. Half-stipend assistantships require students to perform assistantship assignments for a minimum of 10 hours per week during the period of the assignment. Full-stipend assistantships require students to perform assistantship assignments for a minimum of 20 hours per week during the period of the assignment. University policy requires that graduate assistants (position codes 9181-9184, 9186, and

9187) with half-stipend assistantships receive a minimum stipend of \$6,000 (\$3,000 in fall and spring) for doctoral students or \$5,000 (\$2,500 in fall and spring) for master's students; graduate assistants with full-stipend assistantships receive a minimum stipend of \$12,000 (\$6,000 in fall and spring) for doctoral students or \$10,000 (\$5,000 in fall and spring) for master's students per academic year. In rare circumstances, students may be appointed to assistantships with total hourly commitments that extend beyond 20 hours per week. During the fall and spring terms, approval for appointments above 20 hours per week must be requested using the Supplemental Assignment Form; during the Summer term, prior approval is not required. Departments vary widely in their normal stipend rates.

Specific eligibility and application guidelines for graduate assistantships are established by the colleges and hiring departments. To apply for an assistantship, students should contact their Graduate Program Director in the department of study. (For your Graduate Program Director's e-mail address and telephone number, see the "Contact Info" in the Graduate Programs section of this graduate catalog.)

Part-time students and nondegree students are not eligible to receive assistantships.

Background Investigations

UCF requires a criminal history background investigation for all new hire graduate assistantship students (job codes 9181, 9182, 9183, 9184, 9186, 9187), as well as for those students who are being rehired as graduate assistants after being off the university payroll for one year or more. UCF requires authorization from the graduate assistantship student to conduct this background check, using the Fair Credit Reporting Act Disclosure and Authorization to Release Information Form at <http://hr.ucf.edu>.

Assistantship Payment

Graduate students who have assistantships receive bi-weekly payments following the schedule set by Human Resources. Assistantship payments do not show as a credit on the student's term bill; thus, they do not defer tuition and fee charges. Students are responsible for paying the balance on their term bill by the payment deadline published in the Academic Calendar.

Graduate students on assistantships should be aware of the Internal Revenue Service guidelines for exemption from FICA withholding taxes. For more information, please see "Federal Tax Guidelines" on the UCF Human Resources website.

Graduate Research Associates and Assistants

Graduate research associates and assistants (GRAs, job codes 9181 and 9182) may assist faculty with research activities, participate in research efforts in university institutes and centers or in off-campus projects affiliated with the university, or perform other research-related duties. They may also be assigned to nonacademic university offices such as Academic Affairs, University Analysis and Planning Support, and Operational Excellence and Assessment Support.

GRAs are typically supported by grants and contracts, but may also be supported by departmental funds. GRAs will have the cost of resident tuition paid by university funds (i.e., through grants, contracts, college or division funds, foundation funds or through a formal, written university-approved agreement).

Graduate Assistants

Graduate assistants (GAs, job code 9186) may assist in general office tasks and services not involved in teaching or research assignments for colleges, departments, or nonacademic university offices. GAs will have the cost of resident tuition paid by university funds (i.e., through grants, contracts, college or division funds, foundation funds or through a formal, written university-approved agreement).

Graduate Teaching Associates, Assistants and Graders

Graduate teaching associates, assistants, and graders (GTAs) support the teaching mission of the university and can be hired under three job codes: Graduate Teaching Associate (9183, Instructor of Record); Graduate Teaching Assistant (9184); and Graduate Teaching Assistant - Grader (9187). GTAs may be assigned as instructors of record for undergraduate courses, as assistants to the faculty in their teaching responsibilities or in other roles directly related to credit-earning formal course instruction, or as tutors for students on specific course-related material or general skills. GTAs assisting members of the faculty may have responsibilities that include assisting in laboratory courses, grading, preparation of course materials, or performing clerical tasks associated with course instruction.

GTAs will receive graduate tuition waivers that cover the cost of resident tuition or will have the cost of resident tuition paid by the employing unit.

Graduate Teaching Requirements

- Students must have completed at least 18 hours of graduate courses in the discipline prior to being assigned as an instructor of record or teaching independently at the university. Graduate Teaching Associates may not teach graduate courses.
- New graduate teaching associates, assistants, and graders are required to satisfy the UCF GTA Training requirements before beginning their assistantship assignment. Graduate teaching associates must complete the online GTA Grader Training and GTA Assistant Training a workshop presented by the Faculty Center for Teaching and Learning. Graduate teaching assistants must complete the online GTA Grader Training and GTA Assistant Training. Graduate teaching graders must complete the online GTA Grader Training.
- Students with access to student records must maintain the confidentiality of all student records and information. Failure to do so will result in immediate dismissal.
- All graduate students involved in classroom instruction who received their undergraduate degrees from a foreign institution must prove their facility with spoken English. See "English-speaking Ability for Graduate Teaching Assistants" below for more information.

For more information regarding GTAs at UCF and registration for GTA Training and Versant testing, see Graduate Teaching.

English-speaking Ability for Graduate Teaching

The Versant English Test is used to measure the communicative competence of non-native English-speaking graduate students under consideration for graduate teaching assistant and graduate teaching associate positions (job codes 9184 and 9183). This requirement applies to all students from countries where English is not the native language; however, such students will be exempt if they have completed a previous degree from an accredited U.S. college or university recognized by UCF, from a country where English is the only official language, or from a university at which English is the only official language of instruction, or they have received a score of 26 or higher on the Speak portion of the ibt TOEFL. Only exempted students and those who have attended the UCF GTA Training and satisfactorily passed the evaluation of their English-speaking skills may be assigned as GTAs.

English-speaking ability will be evaluated at UCF using the Versant English Test. The English Language Institute is responsible for administering the test. The university provides you with free English-speaking training (Oral Communication for Internationals) if your overall score is between 58 and 68 on the initial Versant test, taken at the beginning of the fall or spring semester.

Initial Versant	English-speaking Training
69 or more	No training needed; you may be a GTA Associate or Assistant provided you meet other SACS-related qualifications.
58-68	One semester of free training (Oral Communication for Internationals) will be provided by the university with an additional Versant exam required at the end of the semester's training. Failure to attend 15 or more sessions or to complete the required Versant exam in that semester will result in you being charged for the training and final Versant exam. You may be employed as a GTA Assistant to help with laboratory or other duties under the supervision of a faculty member, provided you meet other SACS-related qualifications.
Less than 58	Please consult the English Language Institute for an intensive English language program that will meet your needs. These programs charge a fee, depending upon your needs, that must be paid by you.

If students achieve the required score on the Versant English Test at the end of the semester and all other requirements are met, they may be assigned as GTA Assistants or GTA Associates.

Assessment of Graduate Teaching Associates, Assistants, and Graders

All GTAs will be evaluated on their teaching each semester using the electronic GTA Performance Assessment Form. Completion of the form constitutes a summary assessment based on prior classroom visits, informal observations, input from students, discussions with the GTA, and other evidence of performance. The faculty member who is supervising the GTA must complete the assessment and meet with the student to discuss the assessment. The form is generated by the College of Graduate Studies by the end of the semester and is routed electronically to the faculty supervisor and GTA (in myUCF).

Assistantship agreements will not be approved for GTAs who are missing Performance Assessment Forms.

Use of the assessment is at the discretion of the department in reassigning or continuing the student in their GTA position.

Employment of International Students

For information regarding the employment of international students, see International Students in the Admissions section of this catalog.

Parental Leave for Graduate Assistants

The Parental Leave program is designed to assist graduate assistants on existing assistantship agreements during pregnancy or immediately after the birth or adoption of their infant child. The mother may choose to use up to six weeks of leave for pregnancy and/or maternity needs. The spouse or partner may choose to use up to six weeks of leave

to assist in the care of the newborn child and the child's mother during the postpartum period. Graduate assistants who have assumed parenthood through the adoption of an infant may also use this leave. This includes graduate assistants in a domestic partnership.

Qualifying for Parental Leave

Only full-time enrolled graduate students holding active assistantship appointments (job codes 9181, 9182, 9183, 9184, 9186, or 9187) are eligible for the leave. These include Graduate Teaching Assistants (GTAs), Graduate Research Assistants (GRAs), and Graduate Assistants (GAs). For assistantship descriptions, see <https://graduate.ucf.edu/assistantships/>.

Applicants for the leave must submit an Application for Parental Leave to the College of Graduate Studies (send to gradassistantship@ucf.edu or Fax 407-823-6442) at least four weeks prior to the anticipated start date of the leave. Provisions will be made for those who must start leave earlier than anticipated due to medical circumstances. The application consists of two parts. Part 1 is the Request form giving the anticipated dates of leave and showing approval of the leave by the funding sponsor of the assistantship (e.g., department chair, research adviser, unit head). Part 2 is the Anticipated Parent Information from an attending physician about the pregnancy and/or birth or from an adoption agency verifying the date of adoption and arrival of the infant.

All students on parental leave must submit an Intent to Return to Assistantship from Parental Leave form to the College of Graduate Studies (send to gradassistantship@ucf.edu or Fax 407-823-6442) at least two weeks before their anticipated return date. Those who experienced pregnancy and delivery must complete the Medical Release section on the form affirming that they have sufficiently recovered to resume their assistantship responsibilities.

Benefits to Graduate Assistants

During the approved parental leave, the student will retain student status and all privileges of an enrolled student.

Approved parental leave is paid leave for up to six weeks but maybe a shorter period, depending on the student's graduate assistantship agreement(s). The student's assistantship status will be maintained during the leave, including paid tuition remission and health insurance (if the student accepted this coverage offered by the College of Graduate Studies).

The parental leave applies to the graduate assistantship position and does not excuse students from required coursework. Prior to the leave, students are expected to confer with their course instructors to develop plans as necessary to make up any academic work that may be missed during the leave.

Assistantship Payment and Coverage

The College of Graduate Studies will pay the assistantship stipend equal to the rate of the student's existing assistantship agreement(s) during the approved leave period. Arrangements for this payment will be coordinated with the student's assistantship sponsor (i.e., hiring department).

Since the assistantship sponsor does not pay the stipend during the approved leave, the sponsor may hire a replacement at its own expense to fill the duties of the student on leave. This hire may be done using a short-term OPSGRD or a Supplemental Assignment for an existing graduate assistant. The Supplemental Assignment will be approved by the College of Graduate Studies as long as the replacement is in good academic standing with at least a Graduate Status GPA of 3.0, has a history of academic progress in the degree program, and has completed required training for their assignments (e.g., GTA training and Versant Test; for grants, responsible conduct of research training).

The parental leave period of up to six weeks is only in effect for the duration of an existing assistantship agreement and will not extend beyond the agreement end date. However, parental leave could be divided between the end of one semester and the beginning of the subsequent semester if there are assistantship agreements in both semesters.

Graduate Tuition Support

Graduate assistantship students or graduate students who receive certain university-wide fellowships will receive tuition support (formally referred to as "tuition remission") as part of their funding. Tuition remission is in the form of either tuition waivers or tuition payments from university funds.

Tuition support pays the resident tuition ("in-state" tuition); it does not include payment of local fees (health fee, athletic fee, etc.). However, certain programs will pay additional fees for their supported students. For nonresident students, see below. Tuition support is generally described in the student's financial offer letter. Students should contact their program or department if they have questions about the tuition support that will be provided.

For students receiving tuition support based on their graduate assistantship(s), the level of tuition support is dependent on the level of assistantship support. To receive half tuition support, students are required to have a single assistantship assignment for a minimum of 10 hours per week during the period of the assignment. To receive full tuition support, students are required to have a single assistantship assignment for a minimum of 20 hours per week, or two assistantship assignments, each for a minimum of 10 hours per week during the period of the assignment.

Certain fellowships also provide tuition support. Students should review the letter offering the fellowship and the terms of the award to see if tuition support is included. Specific questions concerning the amount of tuition included with a given fellowship may be directed to the UCF College of Graduate Studies at gradfellowship@ucf.edu.

Tuition support for nonresident students:

For nonresident students, all university fellows who receive tuition support and qualifying graduate assistants will not be charged the nonresident fee ("out-of-state" tuition) or the nonresident financial aid fee. Peace Corps Fellows will not be charged the nonresident fee or nonresident financial aid fee for the duration of their graduate studies at UCF. Qualifying assistantships include a single appointment of at least 0.5 FTE (20 hours per week) or two appointments of at least 0.25 FTE (10 hours per week). It is important to note that this will only be in effect for the terms of the fellowship or the qualifying assistantship appointment(s).

Note: Students receiving tuition assistance from another source (UCF Employee Tuition Voucher, State Employee Tuition Voucher, etc.) may not also receive a UCF graduate tuition waiver.

Student Obligations

Students receiving tuition remission from the university should speak with their Graduate Program Director and reach out to the College of Graduate Studies at gradassistantship@ucf.edu before making changes to their enrollment (after the Drop/Add period) or resigning from an assistantship to discuss potential financial impacts.

Student drops or withdraws from a course but remains full-time. If a student drops or withdraws from a course for which tuition remission has been received but remains full-time enrolled, the tuition remission will be removed and the student must pay the tuition for that course. Holds will prevent the student from registering for classes, receiving transcripts, or receiving grade reports until the payment is received. However, if the student enrolls in a replacement course that is acceptable in the Program of Study, the tuition remission will cover the replacement course.

Student drops or withdraws from a course and becomes part-time. If a student drops or withdraws from a course for which tuition remission has been received and becomes part-time as a result, the tuition remission will be removed and the student must pay for tuition. Holds on student records will prevent students from registering for classes,

receiving transcripts, or receiving grade reports until the payment is received. (A student may request an exception to this policy if there are extenuating circumstances.)

Student is dismissed or resigns from assistantship. Students with tuition remission who are dismissed from the university or resign from their graduate assistantship (GA, GTA, or GRA) at any point during the term will have their tuition remission removed and must pay for tuition. (A student may request an exception to this policy if there are extenuating circumstances.)

Requesting Tuition Remission

Upon the recommendation of program and college offices, the UCF College of Graduate Studies assigns tuition waivers and facilitates tuition payments to qualifying graduate assistantship students. Students should discuss their tuition support needs with their Graduate Program Director.

Students with Positions in Nonacademic Units

Students may also be hired on a graduate assistantship in a nonacademic office. Tuition remission for these appointments is in the form of tuition payments. Students should discuss their tuition support needs with their nonacademic office supervisor.

Contact the UCF College of Graduate Studies if you are unsure if the office is considered nonacademic.

Tuition Remission Posting

All tuition support will be posted to your student account through the Office of Student Accounts, based on instructions provided by the UCF College of Graduate Studies for graduate tuition waivers, or by the program, college or office for tuition payments. Upon enrollment in full-time hours, students receiving tuition support will have their tuition remission posted for the amount of the award. Students are responsible for paying the remaining balance of tuition and fees by the Payment Deadline published in the UCF Academic Calendar.

Paid Health Insurance Coverage

The College of Graduate Studies offers individual health insurance coverage to all qualifying university fellows and graduate assistantship students with appointments totaling 20 hours per week. Students are notified at their UCF Knights email and will only be enrolled in the health insurance plan if they submit the health insurance acceptance form to the College of Graduate Studies.

Qualifying Fellowships and Assistantships

- Students with university fellowships that are accompanied by tuition waivers are eligible for paid health insurance coverage.
- Graduate assistantship students are eligible for paid health insurance coverage if they have a single appointment of at least 0.5 FTE (20 hours per week) or two appointments of at least 0.25 FTE (10 hours per week). Graduate assistantships must be accompanied by resident tuition remission in the form of either GTA tuition waivers or tuition payments paid by university funds.

Coverage is provided based on the semester(s) of the qualifying fellowship or assistantship. Students with funding in fall and spring are eligible for annual (August 15 – August 14) coverage. Students with qualifying assistantships and fellowships in the fall term only are eligible for the fall coverage period. Students with qualifying support in the spring term are eligible for spring/summer insurance coverage. Students with a qualifying assistantship or fellowship only in summer term are eligible for summer coverage.

All students qualifying for paid health insurance coverage will be required to accept or decline the health insurance coverage in their myUCF Student Center by submitting the Graduate Health Insurance electronic form. See Health Insurance for more information about this health insurance coverage and coverage period dates.

Communications from the College of Graduate Studies and the health insurance company will be sent to the student's Knights e-mail address and the local mailing address in the university records. Students who anticipate receiving health insurance coverage due to their assistantship or fellowship are advised to keep their contact information current at myUCF (my.ucf.edu).

Student Financial Assistance

Office of Student Financial Assistance

Director: Alicia Keaton
Millican Hall, Room 107
Switchboard: (407) 823-2827
Fax: (407) 823-5241
Email: finaid@ucf.edu
Website: ucf.edu/financial-aid

Office Hours:

Monday:	9:00 a.m. - 5:30 p.m.
Tuesday/Wednesday/Friday:	9:00 a.m. - 5:00 p.m.
Thursday:	9:00 a.m. - 5:30 p.m.

(Hours subject to change during holidays and semester breaks.)

The Office of Student Financial Assistance, a unit with Student Development and Enrollment Services is dedicated to supporting UCF's mission and goals through the efficient delivery of student aid. The office provides UCF students with a comprehensive offering of financial assistance options to support student success and the attainment of a university degree. Financial aid counseling is available on a walk-in basis. To protect the privacy of student records, we offer limited counseling services through phone and email.

Student Eligibility

To receive aid from most federal and state financial aid programs, students must meet certain requirements. All students are encouraged to complete the Free Application for Federal Student Aid (FAFSA) annually, before December 1, to determine eligibility for aid. The FAFSA results are required for many programs. The federal processor, using a standardized formula, calculates financial need. Those results are then forwarded to the schools that were identified on the application. UCF must be listed on the FAFSA in order to receive the data. UCF's Federal School Code is 003954. Regulations are subject to change at any time.

Application Priority Date

All students must apply and/or reapply annually for financial aid.

To be considered for the full range of financial aid funding available, students should complete the Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA by mid-November. The processed results of the FAFSA must be received by **December 1** to meet the university's application priority date.

If the priority date is missed, students should apply as soon as possible after that date.

Students should not wait to be admitted to UCF before applying for financial aid; however, they cannot be offered a financial aid package until they have been admitted to the university.

Students enrolling in the fall semester should submit all requested documents by the May 30, priority deadline for timely review and processing of their financial aid file. However, all students should have a completed financial aid file at least 60 days prior to the beginning of any given semester. Students who apply late for aid should be prepared to cover their own living expenses, as well as other out-of-pocket expenses, well into the term.

Application Procedures

The FAFSA can be filed electronically at studentaid.gov/h/apply-for-aid/fafsa.

Using the IRS Data Retrieval Tool found within the FAFSA is the most accurate and secure method of providing the required tax information. Applicants who use the unchanged data generated by the IRS Data Retrieval Tool will not be required to provide federal tax return transcripts from the IRS to the financial aid office. Students who are selected for verification who did not use the IRS Data Retrieval Tool, or changed data after using the tool, may be required to submit IRS tax return transcripts or signed copies of 2017 tax returns to verify tax information.. The only exceptions to this rule include those who file tax returns in Puerto Rico or foreign countries.

Information provided on the Student Aid Report (SAR) should be reviewed thoroughly.

Review all correspondence, follow instructions on the SAR, and follow through within 5-10 business days. Delays can be costly as well as frustrating.

Federal regulations require that some students be selected for verification. If selected, students will be asked to provide documents supporting the information submitted on the FAFSA. Subsequent requests for data may be necessary after initial submissions are reviewed. Prompt response to requests will expedite the completion of this process.

Students selected for verification for the 2020-2021 aid year are advised to submit all requested documents by the May 30, verification priority deadline for timely processing. Students should have a completed financial aid file no later than 60 days prior to the beginning of a semester.

Late or incomplete submission of documents can result in delayed disbursement or possible loss of eligibility for aid.

Offered federal funds and other need-based financial aid are considered estimates until verification is complete and all necessary corrections have been made.

Specific Eligibility Requirements and Conditions for Receiving Financial Aid

Students must be accepted and classified as degree-seeking at UCF in an eligible program of study.

For purposes of financial aid, enrollment is based on classes that count toward degree completion. To ensure enrollment in sufficient hours for the various financial aid programs, please refer to the Program Eligibility Charts on the Office of Student Financial Assistance website.

Students must maintain UCF's Standards for Satisfactory Academic Progress.

Students are required to inform the Office of Student Financial Assistance of any additional sources of aid they expect to receive beyond those listed on the myUCF portal. Any subsequent awards or income may necessitate a revision of the financial aid package. This includes, but is not limited to, any private scholarships, third party tuition payments, departmental payments and/or waivers.

Students may not receive aid in excess of their Cost of Attendance.

Students must not be in default on any federal educational loan or owe the repayment on a federal grant at this or any other institution.

Students must provide all information requested for the completion of their file. If selected, a verification must be completed within specified deadlines and prior to the receipt of all federal and most state and institutional funds.

Students must notify the Office of Student Financial Assistance of any changes in their housing status, household size, or family members in college from that listed on their FAFSA.

Students must reapply annually for financial aid.

Students must accept, reduce or decline offered loan(s) on the myUCF View Financial Aid screen. First-time borrowers at UCF must complete an online Entrance Loan Counseling session and Master Promissory Note (MPN) for Federal Direct Stafford Loans.

Students must be U.S. citizens or eligible non-citizens, (e.g. resident aliens). Eligible non-citizens include a permanent U.S. resident with a Permanent Resident Card (I-551); a conditional permanent resident with a Conditional Green Card (I-5551C); as well as some I-94 classifications.

For need-based programs, students must show a financial need as determined by the FAFSA.

A male applicant must be registered with Selective Service, if applicable.

School Costs

Estimated student budgets have been developed as a guide to help students anticipate their costs at UCF.

Estimated Cost of Attendance for 2020-2021

Graduate Students

fall/spring based on 9 hours per term

Florida Residents

Non-Florida Residents

Living Arrangement

On/Off Campus Parent/Relative

On/Off Campus Parent/Relative

Tuition/Fees	\$6,660	\$6,660	\$21,504	\$21,504
Books	1,200	1,200	1,200	1,200
Room	6,120	3,352	6,120	3,352
Board	4,180	2,236	4,180	2,236
Transportation	1,866	1,866	1,866	1,866
Personal	3,104	3,104	3,104	3,104
<u>Total Costs</u>	<u>\$23,130</u>	<u>\$18,418</u>	<u>\$37,974</u>	<u>\$33,262</u>

Online Programs for 2020-2021

Graduate Students

fall/spring based on 9 hours per term

Living Arrangement	Florida Residents		Non-Florida Residents	
	On/Off Campus	Parent/Relative	On/Off Campus	Parent/Relative
Tuition/Fees	\$5,902	\$5,902	\$12,518	\$12,518
Books	1,200	1,200	1,200	1,200
Room	6,120	3,352	6,120	3,352
Board	4,180	2,236	4,180	2,236
Transportation	1,866	1,866	1,866	1,866
Personal	3,104	3,104	3,104	3,104
<u>Total Costs</u>	<u>\$23,166</u>	<u>\$18,454</u>	<u>\$38,010</u>	<u>\$33,298</u>

Financial Aid Programs Available at UCF

The Program Eligibility Charts found on the Office of Student Financial Assistance website under "Receiving Aid" list the various programs and their specific enrollment requirements. Detailed information for each program can also be found on the website under its particular title.

Scholarships and Fellowships are awarded based on various criteria, such as financial need, campus/community activities, leadership positions, academic success, and work experience. Scholarships are designed to reward, encourage, and assist students in pursuing academic excellence and leadership roles.

Federal Work Study is a need-based program that provides part-time employment to the student with financial need, allowing them to earn money to help with educational expenses. The program encourages community service work and/or work related to the student's course of study. Individual departments hire students while the Office of Student Financial Assistance determines the student's eligibility, award amount, and pay rate.

Loans are borrowed funds that must be repaid. Graduate students must be enrolled at least half-time in UCF classes that count toward degree completion to receive federal loans. Master's, Specialist and Doctoral students must have a minimum of 4.5 hours per term for fall or spring, and/or 3 hours in the summer. Master's thesis and Doctoral dissertation students must have a minimum of 3 hours in all terms. Graduate and professional students will be offered Federal Direct Unsubsidized Loans up to their maximum loan eligibility.

Award Notification

Award notifications are mailed to first time UCF students after March 1, while email award notifications are sent to continuing students. Initial awards may be amended due to factors such as contingent admission status, less than half-time enrollment, lack of academic progress, changes required due to verification, incomplete files, over awards, receipt of additional resources, etc.

Financial aid awards will be based upon the student's financial need. The amounts listed on the award notifications are estimates based on full-time enrollment. For purposes of financial aid, enrollment is based solely on classes that count toward degree completion. If a class is not required to earn a degree, then the hours of that class are not used to calculate a student's eligibility.

Admission to UCF must be finalized with no contingencies. Students must be classified as degree-seeking.

Verification, if required must be completed. Students must meet the Standards for Satisfactory Academic Progress. If all eligibility requirements are met, financial aid funds may be disbursed.

It is the student's responsibility to be aware of minimum eligibility requirements for each program, which can be found on the Program Eligibility Charts on the Office of Student Financial Assistance website. When requirements are no longer met, awards will be adjusted as necessary. Some awards may be canceled. All changes can be viewed on the myUCF portal, Student Center, "View Financial Aid." All awards are subject to change.

Deferment of Tuition and Fees

Deferments allow for the delay that occurs between the date that tuition and fees are due and the date on which financial aid disbursements are made, which is generally two weeks after the term begins. The fee invoice reflects the deferred due date for tuition and fees. Students given a deferment are advised that their tuition and fees charges must be paid by the due date noted on the fee invoice, which is the deferment date. The following programs are not included in the automatic deferral program: work-study programs, third party deferrals, and other waivers, and direct-pay scholarships.

The deferment process occurs automatically if the student is meeting all general eligibility requirements and has enrolled in sufficient hours for the financial aid program(s). Please refer to the Program Eligibility Charts on the Office of Student Financial Assistance website for more information. Students should use myUCF to obtain up-to-date information.

In order for loans to defer tuition and fees, students must accept the offered loan on myUCF View Financial Aid screen. In order, to have access to accept loans, all required items on the To Do List must be submitted. Students must drop classes prior to the end of Drop/Swap and Add to prevent fee liability for those classes.

Confirmation of Academic Engagement and Disbursements

The timing of disbursements is contingent upon students meeting all conditions for receiving aid. Disbursement of financial aid begins the second week of the semester and continues each week thereafter. During the first week of classes, students are required to confirm academic engagement in each of their courses. This is done through either the student completing an academic activity that has been established by the faculty member or by faculty physically taking attendance. A student may complete the academic activities after the first week of classes but they may receive a later disbursement of aid for those courses. At the end of the Drop/Swap and Add period, awards are adjusted based on the student's enrollment and confirmation of academic engagement in each course. The week following, the disbursement process is initiated by moving students' awards to their student account. Once funds are disbursed to the Office of Student Account Services, the disbursement record is posted on the myUCF portal under "View My Account" on the Student Center. Charges appearing on the student's account will be deducted at that time. Any remaining financial aid will be processed as a refund. If charges remain on the account after disbursements, or if subsequent charges are made to the student's account, it is the student's responsibility to ensure they are paid. Students signed up for direct deposit should allow up to four business days for funds to show in their bank account. For refund checks that are being mailed, students should allow up to 7 business days to receive their check at their current mailing address on myUCF.

Students should be aware of the disbursement process so that they are prepared to use their personal savings for anticipated expenses such as books and supplies at the beginning of the term. The Short Term Advance (STA) for Books or the Textbook Purchase Program is available for students to help with these expenses. The STA application is available for download prior to each term, so that funds may be available as early as two weeks before the first day of classes. For additional information regarding these two programs, visit ucf.edu/financial-aid/receiving/funds-for-books/.

Satisfactory Academic Progress (SAP)

Federal regulations require the university to establish Standards of Satisfactory Academic Progress as a general eligibility requirement for financial aid. A student must maintain Satisfactory Academic Progress in a course of study regardless of whether the student previously received financial aid or transferred in from another institution.

To meet the standards adopted by the University of Central Florida, a student must:

Maintain a minimum cumulative GPA of 3.0 at the graduate level.

Complete a minimum of 70 percent of all credit hours attempted including accepted transfer hours.

Graduate within the number of hours allowed by the Satisfactory Academic Progress policy. Students are allowed a specific number of attempted hours, based on their classification. This includes transfer hours accepted toward the degree plus all UCF hours.

(see chart below)

Graduate Certificate	27 Attempted Hours
	(includes all hours taken while classifies as a graduate certificate student)
Master's	70 Attempted Hours (includes all hours taken while classified as a graduate student)

Specialist	100 Attempted Hours
	(includes all hours taken while classified as a graduate student)

120 Attempted Hours

Doctoral

(includes all hours taken while classified as a graduate student)

Compliance with these requirements are checked at the end of each term

Students who do not meet the above standards will be placed on Financial Aid Warning status for the next semester. At the end of that semester, students must either meet the standards or aid will be placed on Financial Aid Cancellation status meaning all federal aid will be canceled for future terms until the student either meets the standards or the student has an appeal approved. Approved appeals will result in the student being placed on Financial Aid Probation status with an academic plan on file demonstrating the requirements for the student to get back on track towards graduation.

Repeated course(s), including the original attempt, will be counted toward the completion ration and maximum time frame requirements.

Once a student has attempted the maximum hour for a classification level, the student will be canceled including those working towards a second master's degree.

Re-establishing Eligibility after Cancellation

Any student with extenuating circumstances, (i.e., the death of a relative, an illness or injury of the student, etc.), who is placed on cancellation status may appeal to the Financial Aid Review Committee for reinstatement based on his/her special case.

If the student was canceled for the failure to complete 70 percent of the attempted hours and since the cancellation, he/she has brought up the percentage to a minimum of 70 percent, the student will be reinstated during the end of the semester review process. If a student was canceled for not meeting the GPA requirement, they will be placed back on a reinstated status once their GPA has been brought up to the required level during the end of the semester review process.

To appeal, the student must:

- Complete the Satisfactory Academic Progress Appeal Form; (available on the Office of Student Financial Assistance website at ucf.edu/financial-aid, under Forms.
- Include a detailed statement that explains the extenuating circumstances that prevented: or resulted in the student not meeting the SAP standards.
- Attach documentation supporting specific circumstance(s) to the appeal form.
- Meet with the Academic Advisor and have the advisor complete an Academic Plan. The Academic Plan should include courses that are required for degree completion and that will assist the student in moving successfully to meeting the SAP standards.
- Submit the appeal, supporting documentation, and academic plan to the Office of Student Financial Assistance.

After a thorough evaluation of the detailed statement, academic plan, and all supporting documentation, the Financial Aid Review Committee will notify the student of the decision by email communication or the student may view their updated status on myUCF, Student Center, under "View Financial Aid Status." Students reinstated on Financial Aid Probation will be required to have an academic plan that will be monitored by the Office of Student Financial Assistance.

For detailed SAP policy information, please refer to the Office of Student Financial Assistance website.

Satisfactory Academic Progress Probation

Students who submit an SAP Appeal that is approved will be placed on Financial Aid Probation and will remain on probation as long as they successfully comply with the prescribed academic plan that is submitted as part of the SAP Appeal. Progression will be monitored during the probationary period at the beginning and end of each semester to ensure the student is following the prescribed academic plan and successfully matriculating through their program of study. All probation students must successfully complete a minimum of 70% of the credit hours that they attempt each semester. In addition, a student on probation for GPA and/or completion ratio must make positive progression in the appropriate area(s). Financial disbursements will not be made for a semester unless it is verified that the prior review (if applicable) was acceptable and the student is in the proper classes for the term in question.

Graduate Certificate Programs

There are a very limited number of Certificate Programs that are eligible for federal financial aid funding. Only course work required for the program will be considered in calculating aid eligibility. Financial aid disbursements will take place after the Drop/Swap and Add period and courses have been verified, along with confirmation of academic engagement. Students must meet all eligibility requirements prior to disbursement.

Students enrolled in approved certificate programs, must adhere to the following:

- Federal financial aid is available for up to 27 attempted credit hours at the Graduate Certificate classification.
- Must meet the minimum GPA requirements for the Graduate Certificate Program.
- The appeal process is the same as indicated below. In cases of unsuccessful completions or reaching the maximum hours limit, the Academic Plan for Financial Aid is required. Satisfactory Academic Progress (SAP) will be reviewed at the end of each semester.

Over Awards

An over-award occurs when a student's award package has exceeded either the unmet need or Cost of Attendance. To prevent over awards, students are required to notify the Office of Student Financial Assistance of any potential/anticipated awards not already listed on the student's financial aid award summary of myUCF, Student Center. This includes waivers or scholarships that are awarded to students at the beginning of the semester or during the academic year. If the Office of Student Financial Assistance is not aware of additional resources prior to disbursing aid, then that aid (including loans), may have to be reduced and sometimes paid back by the student if the resource creates an over the award. A hold will be placed on the student's account preventing future registration and the ability to receive academic transcripts until the over-award has been fully repaid to the university. Students are advised to discuss the impact of receiving scholarship funding after other financial aid funds have disbursed with the financial aid office.

Refunds and Return of Title IV Funds

Students should be aware that if they withdraw from the university after having received financial assistance, they may be required to repay a portion of that assistance. Students who received Federal Direct Stafford Loans should also know that the Registrar's Office is required to notify the National Student Loan Data System (NSLDS) of student withdrawals. This may change their loan deferment status with their loan servicer(s). Information about late drops, withdrawals, and medical withdrawals can be found on the Office of Student Financial Assistance website at ucf.edu/financial-aid/general-info/withdrawals/.

Repeated Coursework

Federal regulations state that students may only receive federal financial aid funding for one repetition of a previously passed course. As a result, any repeated course(s) that the student enrolls in (current or future terms) cannot be used in the calculation of his/her enrollment level for financial aid purposes for that particular term, regardless of whether or not financial aid was received for the course(s). The repeated course(s), including the original attempt, must be counted towards maximum time frame and hours completion ratio requirements for Satisfactory Academic Progress purposes, which can impact a student's financial aid eligibility. For detailed information, visit ucf.edu/financial-aid/receiving/repeat-coursework/.

Student Rights and Responsibilities

Students have the right to full information about the financial aid programs available at UCF, application procedures, aid deadlines, and the criteria used to determine a financial aid package. Students have the right to appeal decisions made by the Office of Student Financial Assistance. Students also have the right to equitable treatment of their financial assistance applications. Although each student's case is analyzed individually, eligibility standards are applied uniformly without regard to race, gender, religion, creed, national origin, or disability. All students' records are confidential. It is the student's responsibility to review and understand all information and instructions, meet all deadlines, and provide all information and documentation accurately. Errors and omissions can cause delays and prevent students from receiving assistance. Misrepresentation is a violation of federal regulations.

Helpful Hints

- Apply early to be considered for the full range of financial aid available each year by completing the **Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA**. The processed results of the FAFSA must be received by UCF from the federal processor by **December 1** to meet the university's application priority date.
- Use the IRS Data Retrieval Tool located within the FAFSA application. Applicants who use the unchanged data generated by the IRS Data Retrieval Tool will not be required to provide federal tax return transcripts from the IRS. Students who are selected for Verification who did not use the IRS Data Retrieval Tool, or changed data after using the tool, will be required to submit IRS tax return transcripts to verify tax information. Per federal regulation, copies of tax returns (Form 1040, 1040EZ, etc.) are no longer acceptable. The only exceptions to this rule include those who file tax returns in Puerto Rico or foreign countries.
- Students should activate their **Knights Email** account, and check it regularly to avoid missing important and critical information from the Office of Student Financial Assistance and the university.
- Complete all items on your myUCF, Student Center, "To Do List." Respond promptly to all information requests.
- Students may visit the office during normal business hours to meet with a counselor.
- Comprehensive information can be found on the **Office of Student Financial Assistance** website.

Tax Obligations

All students must obtain a Social Security Number (SSN) in order to receive payments from the university, including fellowships, assistantships, and tuition support. Students are responsible for determining their tax obligations. For forms and information, students should contact the Internal Revenue Service (1-800-829-1040) or consult their personal tax adviser.

For more information on international students and tax obligations, see International Students in the Admission and Registration section of this catalog.

FICA Exemption Guidelines

The Internal Revenue Service (IRS) excludes certain types of student wages from the IRS definition of "employment" for purposes of FICA tax withholding. Please consult Federal Tax Guidelines on the UCF Human Resources website for details about this exemption.

Tuition and Fees

Student Account Services

Bursar: Kelly D'Agostino
Millican Hall, Room 109
Phone (407) 823-2433
E-mail: studentaccounts@ucf.edu
Web Address: www.studentaccounts.ucf.edu

General Information

Student Account Services is here to serve the students who attend the University of Central Florida by maintaining accurate financial records and communicating with students concerning their accounts.

Student Account Services is responsible for:

- Tuition and Fee Assessment/Refunds (Student Account Services)
- Processing Payments
- Overdue payment and institutional loans collection (Loans and Collections)

Schedule of Fees

Note: 2020-2021 tuition and fees have not been established at the time of this publication. Rates for the 2020-2021 academic year will be available in July 2020 at <http://studentaccounts.ucf.edu/tf-graduate/>. Fees are subject to change without notice.

Tuition and Fees: Tuition and fees are established by the State Legislature and the University Board of Trustees and are subject to change without notice. Fees are affected by residency status. Tuition and fees are charged per semester or term for the main campus, regional campus, and continuing education courses. Tuition is assessed on a per credit hour basis. Students classified as zero-hour registration students are assessed one credit hour at the Florida Resident Tuition rate at the course level for which the student is registered.

Tuition Fee Invoice: A student's Fee Invoice will show all tuition and fee charges, payments, and deferments associated with the term, and courses in which the student is currently enrolled. The Fee Invoice will not show fees such as housing, library, parking, etc. Tuition Fee invoices are available 24/7 on the web <https://my.ucf.edu>, and from the student's college advising offices. Students should review their current Tuition Fee Invoice prior to making a payment. **Tuition Fee invoices are not mailed.** The Tuition Fee Invoice should be reviewed once after the initial

registration of courses and also after making any changes to the initial registration to ensure that the fees are adjusted accordingly.

Fee Payment Deadlines: All university tuition and fees must be paid by the published dates. Tuition and fees not paid or deferred by the payment deadline date for each term will result in late fees and may result in the cancellation of all classes. Refer to the Academic Calendar each term for the fee payment deadlines.

Limited Non-Degree Enrollment Classes: Payment guidelines for Limited Non-Degree enrollment classes can be found on the "Registration Form for Non-Admitted Students." It is the student's responsibility to officially drop or withdraw from courses to avoid additional financial obligations.

Student Financial Responsibility Statement

Registration at UCF requires students to acknowledge the following financial responsibility statement:

The following agreement includes details on your responsibilities related to, but not limited to the following:

You are responsible for paying for any course for which you are enrolled in at the end of UCF's drop period. If your account becomes delinquent, you agree to reimburse UCF for the fees of any collection agency, which may be based on a percentage of the delinquent account balance.

Fee Responsibility: By registering for courses at UCF, I promise to pay the university the principal, and any late fees, fines or penalties, by the due dates stated on my student account and inapplicable university catalogs and/or websites. I understand that withdrawal for each term begins after the drop deadline and that I remain fee liable for any class from which I withdraw. I understand that non-attendance does not constitute a drop or withdrawal. I also understand that notifying my professor, advisor, or other university representative does not constitute a drop or withdrawal. If I withdraw from courses with the intent of not returning to UCF, I must also drop courses for any future terms or I shall be fee liable and receive a grade.

Payment of Fees: If payment is made by check (electronic or paper) and the check is not honored by my bank, I agree that a returned check fee will be charged to my student account. If I expect financial aid to pay all or part of my financial obligations to UCF, I understand that it is my responsibility to meet all requirements for aid disbursement to my student account. I authorize UCF to use the financial aid to pay for all education costs charged to my student account in accordance with federal guidelines. I understand that it is my responsibility to ensure that all requirements of grantors, lenders, employers, and other third-party payers are met on a timely basis. I understand that despite my expectations for payment from financial aid or other sources, I am ultimately responsible for all charges incurred. I understand that my financial aid may be adjusted due to my student eligibility and/or student status (e.g., part-time, full-time). In connection with any such adjustments, I agree to repay UCF any amounts that the university pays, on my behalf, to lenders or other financial aid providers and that such amounts constitute an educational loan from the university.

Bankruptcy: UCF is an institution of higher education. As such, certain financial obligations are considered to be an educational loan offered for the sole purpose of financing an education and therefore is a non-dischargeable debt, pursuant to the United States Bankruptcy Code section 523(a)(8).

Official Notification: I understand that UCF sends electronic notifications (emails) to my official Knights email account to communicate important updates and that I am responsible for taking action on correspondence sent to this address.

Note: The Fall 2020 Financial Responsibility Statement had not been established at the time of this publication.

Payment Procedures

Payment must be received or postmarked no later than the fee payment deadlines as specified on the Academic Calendar. The primary form of payment of most account holders is online through the E-pay system via the myUCF portal. Currently, students can pay using a check or a credit card in this system. **Payments cannot be transacted by telephone.**

Acceptable Forms of Payment:

- Personal Checks
- Credit Cards (Acceptable credit card types are subject to change). Please review the Student Account Services website: www.studentaccounts.ucf.edu for current payment information.

E-Pay (<https://my.ucf.edu>)—E-Check (Personal Check) or Credit Card

- A nonrefundable convenience fee or processing fee will apply per credit card transaction.
- Payments made at any time on the date of the published fee payment deadline will be considered on time. See the Academic Calendar.

E-Pay process:

- Sign in the myUCF portal as usual then click on the link for Student Self Service; this will open your Student Center page. Use the right scroll bar to scroll to the Finances section. You will find the **My Account** section.
- Click on the link for the Tuition Fee Invoice. Select the current term (i.e. Summer 2020, Fall 2020, or Spring 2021). The Fee Invoice will provide you your schedule, the charges, the Amount Due, and deferrals.
- Annotate the Amount Due as you will need that amount once you are on the E-Pay system.
- Scroll down to the bottom of the page and click on the Due Charges/E-Pay link to make a payment.

Mailed payments: (Please do not send cash)

- Include student's name and UCF ID# on personal checks or money orders (make check payable to the University of Central Florida).
- Address payments to:

University of Central Florida
Student Account Services
Attn: Payment Processing
P.O. Box 160115
Orlando, FL 32816-0115

Payment Drop – 24-Hour Depository at the main campus (located on Reflecting Pond side entrance of Millican Hall)
(no cash)

Other Forms of Payment

Tuition and fees may be partially or completely paid by financial aid, Florida Prepaid, tuition waivers, or departmental grants. The student is responsible to pay any amount that is not covered by these types of payments by the due date on his or her fee invoice.

Financial Aid

See **Student Financial Assistance** for rules and procedures.

All fees not deferred by financial aid are due by the due date on his or her fee invoice.

UCF Payment Plan

The UCF payment plan is a 2-payment design in which the student pays \$15 upfront to be allowed to pay only 50% of the total tuition bill by the regular payment deadline, therefore avoiding a late payment fee, and being dropped for non-payment. The student is then responsible for paying the remaining 50% by the Payment Plan deadline on their Fee Invoice. Students receiving financial aid, Florida Prepaid, waivers, or third party payments already have an extended payment deadline and will not be eligible for the UCF payment plan.

For information regarding Florida Prepaid College Plan or Tuition Waivers please refer to the Student Account Services website.

Tuition and Fees for Senior Citizens

Persons 60 years of age or older who meet Florida residency requirements may register to audit classes on a space-available basis without payment of tuition and application fees. Registration is on a **space-available basis**; see the appropriate term's Academic Calendar <http://calendar.ucf.edu> for registration dates and times. The tuition fee waiver cannot be used for courses that require increased costs (such as thesis, dissertation, and directed individual study). A "Florida Residency" Affidavit is required to establish Florida residency. A completed "Student Health History" form must be filed prior to registration. Inquiries should be directed to the Registrar's Office (MH 161; Telephone: 407-823-3100).

Refund of Fees

A refund of fees will be processed under the conditions noted below. The student must submit a written appeal for a refund or other appeal action to the University within six months of the close of the semester/term to which the refund or other appeal action is applicable. Any debts to the University will be deducted from the refund, up to the full amount.

Full Refund Eligibility

The following conditions allow a full refund: 1) A class is dropped before the end of the Drop period; 2) Cancellation of a course by the university.

Partial Refund (25%)

Twenty-five percent of tuition and associated fees assessed "adjusted for waivers" is refundable when the student withdraws **completely** from the University prior to the end of the fourth week of classes during a 16 or 17 week semester, or as designated by the university for summer sessions.

Exceptional Circumstances

Refunds for exceptional circumstances may be available for certain Administrative Record Changes of courses. Up to 100% of tuition and registration fees are refundable if due to circumstances determined by the University to be exceptional, including, but not limited to, sickness, death, involuntary call to military service, or University administrative error. If approved, a Late Withdrawal does not result in a refund of tuition and fees. Please visit the Academic Services website for more information.

A written appeal for a refund or other appeal action must be submitted to the University within six (6) months of the close of the semester to which the refund or other appeal action is applicable.

Direct Deposit

Students are strongly encouraged to establish direct deposit with the University. Direct Deposit prevents delays due to lost checks or change of address. All refunds from students' accounts can be directly deposited into the student's checking account to any U.S.A. bank in the federal system. Funds are usually available within 24-48 hours after disbursement, and enrollment only takes a few minutes. To enroll, sign in at <https://my.ucf.edu> and click on Student Self Service. Go to the Student Account Services link, then click on Direct Deposit and follow the instructions.

Past Due Accounts

All financial obligations to the University must be met. **Failure to meet obligations can result in the withholding and denial of registration, diploma, transcripts, and readmission to the University.** The services of a professional collection agency and recourse to the courts may also be invoked if deemed necessary. All costs of collection, including attorney's fees, are the responsibility of the debtor.

Do not assume your registration will be canceled if you fail to pay fees or attend classes. Tuition deferrals, for example, will prevent class cancellation for non-payment.

Late Fees

Late Payment Fees apply to students who do not pay their fees (or obtain a full fee deferment) by the payment deadline. The Late Payment Fee is \$100 per term minimum.

Late Registration Fees are charged to students who enroll following the close of the regular registration period for the term, who re-register, or who enroll for the first time that term during Late Registration and Drop/Swap and Add period. The Late Registration Fee is \$100.00 per term minimum.

Late Payment DNP (Drop for Non-Payment) Fees are charged to students who are dropped for non-payment of courses per term minimum.*

*Summer term is divided into sessions, and the late fees are charged per session.

Administrative Procedures Act

The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, and rules, regulations, or procedures set forth on the Registrar's Office website. Statements in the Registrar's Office website may not be regarded in the nature of binding obligations on UCF or the state of Florida. While every effort will be made to accommodate the curricular needs of students, limited resources may prevent the University from offering all required courses in each term or day and evening sessions. Students should refer to the current Undergraduate Catalog or the Graduate Catalog for the complete Policy Statement.

Accreditation

Overview

The University of Central Florida is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award degrees at the associate, baccalaureate, master's, specialist, and doctoral levels. Questions about the accreditation of UCF may be directed in writing to the Southern Association of Colleges and

Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

More information about UCF's SACSCOC accreditation may be found at apq.ucf.edu/institutional-accreditation.

Please note the commission's expectation that contact occurs only if there is evidence to support significant non-compliance with a requirement or standard. For other information about UCF's SACSCOC accreditation, please contact the university's SACSCOC liaison in UCF's Office of Academic Affairs.

For the purposes of this catalog, "accredited institutions recognized by UCF" means those institutions accredited by one of the following seven U.S. associations:

- Middle States Commission on Higher Education (MSCHE)
- New England Association of Schools and Colleges, Commission on Institutions of Higher Education (NECHE)
- North Central Association of Colleges and Schools, Higher Learning Commission (HLC)
- Northwest Commission on Colleges and Universities (NWCCU)
- Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)
- Western Association of Schools and Colleges, Accrediting Commission for Community and Junior Colleges (ACCJC)
- Western Association of Schools and Colleges, Senior College and University Commission (WSCUC)

Graduate Admission Requirement

In order to enroll in graduate classes, students must have obtained a baccalaureate or higher degree, prior to the start of the term for which the student is admitted, from an institution accredited by one of the above accrediting agencies or from a recognized foreign institution. Students without a baccalaureate or higher degree from an appropriately accredited institution (or equivalent) are not admitted to graduate degree programs, graduate certificate programs, or graduate nondegree status.

Recognized Institution

A "recognized institution" in a country outside of the United States is an institution that is recognized by that nation's Ministry of Education or similar authority, as a post-secondary, academic-degree-granting institution.

Other Accreditations

In addition to the accreditation agencies recognized by UCF, there are a number of scientific, professional, and academic bodies conferring accreditation in specific disciplines. Several UCF graduate programs are accredited or are similarly recognized by one or more of the following agencies:

- Accreditation Committee of the Human Factors and Ergonomics Society (HFES)
- American Psychological Association Commission on Accreditation (APA-CoA)
- American Speech-Language-Hearing Association (ASHA)
- The Association to Advance Collegiate Schools of Business (AACSB International)
- Commission Accreditation of Athletic Training Education (CAATE)
- Commission on Accreditation for Health Informatics and Information Management (CAHIIM)
- Commission on Accreditation in Physical Therapy Education (CAPTE)

- Commission on Accreditation of Healthcare Management Education (CAHME)
- Commission on Collegiate Nursing Education (CCNE)
- Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Council on Social Work Education (CSWE)
- Florida Department of Education
- Liaison Committee on Medical Education (LCME)
- National Association of School Psychologists (NASP)
- National Association of Schools of Music (NASM)
- National Association of Schools of Theatre (NAST)
- Network of Schools of Public Policy, Affairs and Administration (NASPAA)
- Planning Accreditation Board (PAB)

UCF Online

Courses

UCF offers hundreds of online courses to all students every semester. The online course materials and methods have been developed by UCF faculty members to maximize the learner's achievement of course and program objectives and to provide students with convenient and flexible learning opportunities.

Support for all students in online courses is available at <https://cdl.ucf.edu/support/student/>. Online courses are identified in the Class Schedule Search available at my.ucf.edu. In the Additional Search Criteria section, use the drop-down list next to Mode of Instruction to search by online class modalities.

UCF's fully online instruction modes are Web-Based (W) and Video (V). More information on all UCF instruction modes and important course attributes is available at <https://cdl.ucf.edu/support/student/modalities/>

UCF Online Programs and Students

UCF offers dozens of programs that can be completed entirely with online courses. These programs are available to all students and UCF Online provides an option for students who are interested in taking online courses exclusively. Newly admitted students who choose this option may not enroll in classes with scheduled face-to-face meetings. This includes classes coded P (face-to-face instruction), RS, and M (Mixed-mode/reduced seat time).

Students enrolled as a UCF Online student are exempt from some campus-based fees and are restricted from the corresponding campus-based services such as the Recreation and Wellness Center and Student Health Services. UCF Online students do have access to all academic and support services such as financial aid, advising, library services, and career services. UCF Online students also have the support of a dedicated staff of success coaches specifically trained and enabled to meet the needs of students without regular access to UCF's physical campuses. See www.ucf.edu/online for more information.

- ◆ New - New programs starting this catalog
- ◆◆ Updated - Existing programs with updates
- ▶ Online Program

Online Graduate Certificates

- Applied Photonics Graduate Certificate ▶ ◆
- Autism Spectrum Disorders Graduate Certificate ▶

- College Teaching and Leadership Graduate Certificate ►
- Conflict Resolution and Analysis Graduate Certificate ► ♦
- Corrections Leadership Graduate Certificate ►
- Crime Analysis Graduate Certificate ►
- Cyber Risk Management Graduate Certificate ► ♦
- Data Analytics Graduate Certificate ► ♦
- Data Modeling Graduate Certificate ► ♦
- Destination Marketing and Management Graduate Certificate ►
- e-Learning Design, Development, and Delivery Graduate Certificate ►
- Event Management Graduate Certificate ►
- Financial Mathematics Graduate Certificate ► ♦
- FinTech Graduate Certificate ► ♦
- Fundraising Graduate Certificate ►
- Gender Studies Graduate Certificate ►
- Gifted Education Graduate Certificate ►
- Health Care Simulation Graduate Certificate ►
- Healthcare Systems Engineering Graduate Certificate ►
- Hospitality and Tourism Technologies Graduate Certificate ►
- Initial Teacher Professional Preparation Graduate Certificate ►
- Instructional Design Graduate Certificate ►
- Instructional Design for Simulations Graduate Certificate ►
- Instructional/Educational Technology Graduate Certificate ►
- Juvenile Justice Leadership Graduate Certificate ►
- Local Director of Career and Technical Education Graduate Certificate ►
- Mathematical Science Graduate Certificate ►
- Nonprofit Management Graduate Certificate ►
- Nursing Education Graduate Certificate ►
- Optical Imaging Systems Graduate Certificate ► ♦
- Police Leadership Graduate Certificate ►
- Prekindergarten Disabilities Graduate Certificate ►
- Professional Writing Graduate Certificate ►
- Project Engineering Graduate Certificate ►
- Public Administration Graduate Certificate ►
- Quality Assurance Graduate Certificate ►
- Research Administration Graduate Certificate ►
- Research Smarts Graduate Certificate ► ♦
- Special Education Graduate Certificate ►
- Systems Engineering Graduate Certificate ►

Fully Online Graduate Degree Programs

- Aerospace Engineering MSAE ►
- Career and Technical Education MA ►
- Civil Engineering MS
- Civil Engineering MSCE ►
- Criminal Justice MS ►

- Digital Forensics MS ▶*
- Educational Leadership MA ▶
- Emergency and Crisis Management MECM ▶
- Engineering Management MSEM ▶ ♦♦*
- English MA ▶
- Environmental Engineering MS
- Environmental Engineering MSEnvE ▶
- Exceptional Student Education MEd ▶
- Forensic Science MS ▶
- Health Administration MHA
- Health Care Informatics MS, Professional Science Master's ▶
- Hospitality and Tourism Management MS ▶
- Industrial Engineering MS ▶*
- Industrial Engineering MSIE ▶*
- Instructional Design and Technology MA, Educational Technology Track ▶
- Instructional Design and Technology MA, e-Learning Track ▶
- Instructional Design and Technology MA, Instructional Systems Track ▶
- Materials Science and Engineering MSMSE ▶*
- Mechanical Engineering MSME ▶
- Nonprofit Management MNM ▶
- Nursing MSN ▶
- Nursing Practice DNP
- Nursing PhD ▶
- Public Administration MPA ▶
- Research Administration MRA ▶
- Social Work MSW ▶
- Systems Engineering, MSSE ▶
- Teacher Education MAT
- Travel Technology and Analytics MS ▶

*Note: There may be some courses in the degree and certificate programs above that require limited on-campus attendance for examinations or other activities.

The University of Central Florida has been approved by Florida to participate in National Council for State Authorization Reciprocity Agreements. The reciprocity agreements allow for the open delivery of academic credit-earning activities in participating states, including academic field experiences such as internships or practicums. More information available at registrar.ucf.edu/restrictions.

Contact

UCF Online
 855-903-8576
 Web Address: www.ucf.edu/online/

UCF Connect

UCF Connect is a partnership-driven unit designed to strategically extend UCF's reach to communities in and beyond Central Florida that provides access to quality continuing and higher education for students who, because of time,

distance, preference, or life circumstance, might not otherwise have the opportunity to pursue educational opportunities.

The Central Florida Higher Education Consortium, branded as DirectConnect™ to UCF, is a unique partnership between UCF and College of Central Florida, Daytona State College, Eastern Florida State College, Lake-Sumter State College, Seminole State College, and Valencia College. This agreement provides entry for A.A. and A.S. graduates to UCF as an enhancement to the Florida state-mandated 2 + 2 agreement. Students entering UCF as a DirectConnect™ to UCF student are admitted according to the UCF policies when A.A. or A.S. degrees are awarded. UCF Success Coaches are available on each of the DirectConnect™ to UCF campuses.

UCF Connect offers an opportunity to complete a number of programs through the UCF Connect Centers. Strategically located within an 80-mile radius of the UCF Orlando campus, the UCF Connect Centers partner with the six DirectConnect™ to UCF state colleges, fostering seamless and convenient advancement from completion of an A.A. or A.S. degree to upper-level division work on a baccalaureate degree. With close proximity to Orlando, resources are available at UCF and the UCF Connect Centers, such as admissions, registration, financial aid, advising, student clubs and organizations, accessibility services, veteran's affairs, "smart classrooms," libraries, computer labs, and more. Accessible academic programs vary by location. For the most current information on any of the UCF Connect Centers, check the website at www.connect.ucf.edu/.

For online programs visit: www.ucf.edu/online/

UCF Connect Locations

UCF Altamonte Springs

(in partnership with Seminole State College)
407-404-6089

UCF Cocoa

(in partnership with Eastern Florida State College)
321-433-7821

UCF Daytona Beach

(in partnership with Daytona State College)
386-506-4021

UCF Leesburg

(in partnership with Lake-Sumter State College)
352-536-2113

UCF Ocala

(in partnership with College of Central Florida)
352-854-2322 (x1824)

UCF Palm Bay

(in partnership with Eastern Florida State College)
321-433-7838

UCF Sanford/Lake Mary

(in partnership with Seminole State College)
407-708-2471

UCF South Lake

(in partnership with Lake-Sumter State College)
352-536-2113

UCF Valencia East

(in partnership with Valencia College)
407-582-2318

UCF Valencia Osceola

(in partnership with Valencia College)
321-682-4190

UCF Valencia West

(in partnership with Valencia College)
407-582-5500

Contact

UCF Connect Administration

Vice Provost: J. Jeffrey Jones PhD
12201 Research Parkway, Suite 101
Orlando, FL 32826
407-823-4547

Graduate Programs

- Doctoral
- Specialist
- Master of Fine Arts
- Master
- Certificate
- Nondegree

- ◆ New - New programs starting this catalog
- ◆◆ Updated - Existing programs with updates
- ▶ Online Program

Doctoral

Aerospace Engineering PhD

College: Engineering and Computer Science	Degree: PhD
Department: Mechanical and Aerospace Engineering	Option: Dissertation
Program Websites: http://www.mae.ucf.edu	

Program Description

The Aerospace Engineering PhD program offers students the opportunity, through both coursework and research, to meet the highest standards of academic achievement in the core areas: Aerodynamics. Aerospace Systems Design. Astrodynamics and Space Applications, Dynamics and Control. Propulsion. Structures and Materials.

The Doctor of Philosophy degree in Aerospace Engineering is intended for students who have earned an MS or BS degree in Aerospace Engineering, Mechanical Engineering or a closely related field of Engineering.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-PhD.pdf>.

Curriculum

The Aerospace Engineering PhD program requires a minimum of 72 credit hours beyond a bachelor's degree. This program requires 15 Dissertation (XXX 7980) credit hours minimum and may include up to a total of 12 credit hours combined Directed (XXX 6918) or Doctoral Research (XXX 7919) and/or Independent Study (XXX 6908) with an approved Program of Study. At least 45 hours of the Program of Study must consist of formal coursework exclusive of Directed Research (XXX 6918), Doctoral Research (XXX 7919) and Independent Study (XXX 6908).

Students entering the program with a master's degree are required to complete 42 credit hours minimum, of which 15 credit hours must be formal coursework. The remaining 12 hours can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the graduate program coordinator. These credit hours may include doctoral directed research hours or doctoral dissertation hours.

Total Credit Hours Required: 72 Credit hours minimum beyond the bachelor's degree 42 Credit hours minimum beyond the master's degree.

Unless a completed (signed) Program of Study itemizing the study plan is approved prior to the end of the first semester of studies, the Graduate Director of the MAE Department may choose not to accept any part of the coursework (including independent studies and/or directed research) taken by the student on a Program of Study subsequently submitted by the student.

Admission to doctoral status requires that the student (1) pass a PhD Qualifying Examination, (2) establish a Doctoral Advisory Committee and (3) submit a departmentally approved Program of Study. These steps are normally completed within the first year of study beyond the master's degree.

Additionally, all student pursuing the doctoral program must enroll in the following course:

- EML 5090 EML 5090 - Mechanical and Aerospace Seminar

Elective Courses—57 Credit Hours

Students are also permitted to take courses from other specialization areas. Students may take courses from Mechanical and Aerospace Engineering and other departments, including but not limited to Industrial, Civil and/or Electrical Engineering; Computer Science; Statistics; Mathematics and Physics, with the consent of the academic adviser.

Suggested elective courses include:

- EAS 5123 - Intermediate Aerodynamics **3 Credit Hours**
- EAS 5211 - Aeroelasticity **3 Credit Hours**
- EAS 5302 - Direct Energy Conversion **3 Credit Hours**
- EAS 5315 - Rocket Propulsion **3 Credit Hours**
- EAS 5407C - Mechatronic Systems **3 Credit Hours**
- EAS 5535 - Engineering Design for Aerospace Vehicles **3 Credit Hours**
- EAS 6138 - Advanced Gas Dynamics **3 Credit Hours**
- EAS 6185 - Turbulent Flow **3 Credit Hours**
- EAS 6222 - Non-Destructive Evaluation of Aero-Structures **3 Credit Hours**
- EAS 6250 - Structural and Dynamic Stability **3 Credit Hours**
- EAS 6403C - Attitude Determination and Control **3 Credit Hours**
- EAS 6405 - Advanced Flight Dynamics **3 Credit Hours**
- EAS 6414 - Estimation of Dynamical Systems in Aerospace Engineering **3 Credit Hours**
- EAS 6415 - Guidance, Navigation and Control **3 Credit Hours**
- EAS 6507 - Topics of Astrodynamics **3 Credit Hours**
- EAS 6722 - Multidisciplinary Optimization Under Uncertainty **3 Credit Hours**
- EAS 6807C - Aerospace Measurements Instrumentation **3 Credit Hours**
- EAS 6808 - Space Environment and Payload Instrumentation **3 Credit Hours**
- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5066 - Computational Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5105 - Gas Kinetics and Statistical Thermodynamics **3 Credit Hours**
- EML 5152 - Intermediate Heat Transfer **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5271 - Intermediate Dynamics **3 Credit Hours**
- EML 5311 - System Control **3 Credit Hours**
- EML 5402 - Turbomachinery **3 Credit Hours**

- EML 5456 - Turbines for Sustainable Power **3 Credit Hours**
- EML 5545 - Smart and Adaptive Structures **3 Credit Hours**
- EML 6572 - Probabilistic Methods in Mechanical Design **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**
- EML 6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I **3 Credit Hours**
- EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II **3 Credit Hours**
- EML 6104 - Classical Thermodynamics **3 Credit Hours**
- EML 6131 - Combustion Phenomena **3 Credit Hours**
- EML 6154 - Conduction Heat Transfer **3 Credit Hours**
- EML 6155 - Convection Heat Transfer **3 Credit Hours**
- EML 6157 - Radiation Heat Transfer **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**
- EML 6223 - Advanced Vibrational Systems **3 Credit Hours**
- EML 6233 - Fundamentals of Fatigue Analysis **3 Credit Hours**
- EML 6547 - Engineering Fracture Mechanics in Design **3 Credit Hours**
- EML 6712 - Mechanics of Viscous Flow **3 Credit Hours**
- EML 6725 - Computational Fluid Dynamics and Heat Transfer I **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**
- EEL 5432 - Satellite Remote Sensing **3 Credit Hours**
- EEL 6616 - Adaptive Control **3 Credit Hours**
- EEL 6621 - Nonlinear Control Systems **3 Credit Hours**

Dissertation—15 Credit Hours

- EAS/EML 7980 Doctoral Dissertation **15 Credit Hours Minimum**

Examinations

In addition to the Qualifying Examination discussed above, the student must pass a Candidacy Examination and a Dissertation Defense Examination. The Candidacy Examination is taken near the end of the coursework and consists of a written and oral presentation of a research proposal. The MAE Department typically requires a PhD student to submit his/her Candidacy Exam in the academic semester immediately following his/her successful passing of the PhD Qualifying Exam. The Dissertation Defense Examination is an oral examination taken in defense of the written dissertation. The College of Engineering and Computer Science requires that all Dissertation Defense Examination announcements are approved by the student's advisor and posted on the College's website and on the Events Calendar of the College of Graduate Studies website at least two weeks prior to the defense date.

Dissertation Committee

The Doctoral Advisory Committee must consist of a minimum of four members: two must be graduate faculty members from the MAE Department and one must be at large from outside the MAE Department and will serve as the external committee member. The committee Chair must be a member of the graduate faculty approved to direct dissertation. Joint faculty members may serve as members from within the MAE Department as well as committee Chair. Adjunct faculty and off-campus experts, if approved graduate faculty scholars, may serve as the external person in the committee. The UCF College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee or appoint a co-adviser.

All committee members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the Doctoral Advisory Committee.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours (enrollment in dissertation hours begins the semester following the completion of these requirements). Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours.

- Completion of all coursework, except for dissertation hours.
- Successful completion of the Candidacy Examination.
- Successful defense of the written dissertation proposal.
- Formation of the Doctoral Advisory Committee, consisting of approved Graduate Faculty and Graduate Faculty Scholars.
- Submission of an approved Program of Study.

MAE Department Graduate Seminar Requirement

The MAE Graduate Seminar is a zero credit hour (S/U) course that is offered each fall and spring academic semesters. Prior to graduation, all MAE graduate students who are pursuing PhD dissertation required to register, participate, and receive a satisfactory (S) for four semesters of MAE Graduate seminar, with at least two of these taken prior to candidacy.

Independent Learning

The independent learning requirement is met by successful completion of a student's Candidacy and Dissertation Defense Examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's or Master's degree in Aerospace or Mechanical Engineering or closely related discipline.
- Official, competitive GRE score taken within the last five years.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the graduate program director for further information.

Application Deadlines

Aerospace Engineering PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Big Data Analytics PhD

College: Sciences	Degree: PhD
Department: Statistics	Option: Dissertation
Program Websites: http://sciences.ucf.edu/statistics/graduate	
Graduate Program Handbook	

Program Description

Big Data Analytics will train researchers with a statistics background to analyze massive, structured or unstructured data to uncover hidden patterns, unknown correlations and other useful information that can be used to make better decisions.

The program will provide a strong foundation in the major methodologies associated with Big Data Analytics such as predictive analytics, data mining, text analytics and statistical analysis with an interdisciplinary component that combines the strength of statistics and computer science. It will focus on statistical computing, statistical data mining

and their application to business, social, and health problems complemented with ongoing industrial collaborations. The scope of this program is specialized to prepare data scientists and data analysts who will work with very large data sets using both conventional and newly developed statistical methods.

Curriculum

The Ph.D. in Big Data Analytics requires 72 hours beyond an earned Bachelor's degree. Required coursework includes 42 credit hours of courses, 15 credit hours of restricted elective coursework, and 15 credit hours of dissertation research.

Students must have the following background and courses completed before applying to the Big Data Analytics PhD program. These courses are: MAC 2311C: Calculus with Analytic Geometry I, MAC 2312: Calculus with Analytic Geometry II, MAC 2313: Calculus with Analytic Geometry III, MAS 3105: Matrix and Linear Algebra or MAS 3106: Linear Algebra, COP 3503C - Computer Science II. These pre-required courses are basic undergraduate courses from the Math and Computer Science departments. Students without background in COP 3503C can still apply for admission but they will need to take that course sometime after admission in the PhD program. COP 3503C serves as pre-requisite for COP 5711, which is required for the qualifying exam.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—42 Credit Hours

- STA 5104 - Advanced Computer Processing of Statistical Data **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 6106 - Statistical Computing I **3 Credit Hours**
- STA 6236 - Regression Analysis **3 Credit Hours**
- STA 6238 - Logistic Regression **3 Credit Hours**
- STA 6326 - Theoretical Statistics I **3 Credit Hours**
- STA 6327 - Theoretical Statistics II **3 Credit Hours**
- STA 6329 - Statistical Applications of Matrix Algebra **3 Credit Hours**
- STA 6704 - Data Mining Methodology II **3 Credit Hours**
- STA 7722 - Statistical Learning Theory **3 Credit Hours**
- STA 7734 - Statistical Asymptotic Theory in Big Data **3 Credit Hours**
- STA 6714 - Data Preparation **3 Credit Hours**
- CNT 5805 - Network Science **3 Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems **3 Credit Hours**

Restricted Electives—15 Credit Hours (at least 9 credit hours must be STA coursework)

Other courses may be included in a Plan of Study with departmental approval.

All Ph.D. students must have an approved Plan of Study (POS) developed by the student and advisor that lists the specific courses to be taken as part of the degree. Students must maintain a minimum GPA of 3.0 in their POS, as well as a "B" (3.0) in all courses completed toward the degree and since admission to the program.

- STA 6107 - Statistical Computing II **3 Credit Hours**
- STA 6226 - Sampling Theory and Applications **3 Credit Hours**
- STA 6237 - Nonlinear Regression **3 Credit Hours**

- STA 6246 - Linear Models **3 Credit Hours**
- STA 6346 - Advanced Statistical Inference I **3 Credit Hours**
- STA 6347 - Advanced Statistical Inference II **3 Credit Hours**
- STA 6507 - Nonparametric Statistics **3 Credit Hours**
- STA 6662 - Statistical Methods for Industrial Practice **3 Credit Hours**
- STA 6705 - Data Mining Methodology III **3 Credit Hours**
- STA 6707 - Multivariate Statistical Methods **3 Credit Hours**
- STA 6709 - Spatial Statistics **3 Credit Hours**
- STA 6857 - Applied Time Series Analysis **3 Credit Hours**
- STA 7239 - Dimension Reduction in Regression **3 Credit Hours**
- STA 7348 - Bayesian Modeling and Computation **3 Credit Hours**
- STA 7719 - Survival Analysis **3 Credit Hours**
- STA 7935 - Current Topics in Big Data Analytics **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 6307 - Text Mining I **3 Credit Hours**
- CAP 6315 - Social Media and Network Analysis **3 Credit Hours**
- CAP 6318 - Computational Analysis of Social Complexity **3 Credit Hours**
- CAP 6737 - Interactive Data Visualization **3 Credit Hours**
- COP 5537 - Network Optimization **3 Credit Hours**
- COP 6526 - Parallel and Cloud Computation **3 Credit Hours**
- COP 6616 - Multicore Programming **3 Credit Hours**
- COT 6417 - Algorithms on Strings and Sequences **3 Credit Hours**
- COT 6505 - Computational Methods/Analysis I **3 Credit Hours**
- ECM 6308 - Current Topics in Parallel Processing **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 6760 - Data Intensive Computing **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 6418 - Linear Programming and Extensions **3 Credit Hours**
- ESI 6609 - Industrial Engineering Analytics for Healthcare **3 Credit Hours**
- ESI 6891 - IEMS Research Methods **3 Credit Hours**

Dissertation—15 hours

- STA 7980 - Dissertation Research **15 credit hours**

Examinations

After passing candidacy, students will enroll into dissertation hours (STA7980) with their dissertation advisor. The dissertation can be either research- or project-based depending on the area of study, committee, and with the approval of the dissertation advisor.

Qualifying Examination

The qualifying examination is a written examination that will be administered by the doctoral exam committee at the start of the fall term (end of the summer) once a year. The courses required to prepare for the examination are STA 5703, STA 6704, CNT 5805, STA 6326, STA 6327 and COP 5711. Students must obtain permission from the Graduate

Program Coordinator to take the examination. Students normally take this exam just before the start of their third year and are expected to have completed the exam by the start of their fourth year. To be eligible to take the Ph.D. qualifying examination, the student must have a minimum grade point average of 3.0 (out of 4.0) in all the coursework for the Ph.D. The exam may be taken twice. If a student does not pass the qualifying exam after the second try, he/she will be dismissed from the program.

Candidacy Examination

The candidacy exam is administered by the student's dissertation advisory committee and will be tailored to the student's individual program to propose either a research- or project-based dissertation. The candidacy exam involves a dissertation proposal presented in an open forum, followed by an oral defense conducted by the student's advisory committee. This committee will give a Pass/No Pass grade. In addition to the dissertation proposal, the advisory committee may incorporate other requirements for the exam. The student can attempt candidacy any time after passing the qualifying examination, after the student has begun dissertation research (STA7919, if necessary), but prior to the end of the second year following the qualifying examination. The candidacy examination can be taken no more than two times. If a student does not pass the candidacy exam after the second try, he/she will be removed from the program.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours.

- Completion of all coursework, except for dissertation hours
- Successful completion of the qualifying examination
- Successful completion of the candidacy examination including a written proposal and oral defense
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars
- Submittal of an approved program of study

Dissertation

After passing the qualifying exam, the student must select a dissertation adviser. In consultation with the dissertation adviser, the student should form a dissertation advisory committee. The dissertation adviser will be the chair of the student's dissertation advisory committee. In consultation with the dissertation advisor and with the approval of the chair of the department, each student must secure qualified members of their dissertation committee. This committee will consist of at least four faculty members chosen by the candidate, three of whom must be from the department and one from outside the department or UCF. Graduate faculty members must form the majority of any given committee. A dissertation committee must be formed prior to enrollment in dissertation hours.

The dissertation serves as the culmination of the coursework that comprises this degree. It must make a significant original theoretical, intellectual, practical, creative or research contribution to the student's area within the discipline. The dissertation can be either research- or project-based depending on the area of study, committee, and with the approval of the dissertation advisor. The dissertation will be completed through a minimum of 15 hours of dissertation research credit.

Independent Learning

As will all graduate programs, independent learning is an important component of the Big Data Analytics doctoral program. Students will demonstrate independent learning through research seminars and projects and the dissertation.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

- In addition to the general UCF graduate application requirements, applicants to this program must provide:
- One official transcript (in a sealed envelope) from each college/university attended.
- A personal statement identifying the area of research interest and a description of the applicant's academic and professional experiences.
- Three letters of recommendation.
- A Bachelor's degree or its equivalent in statistics, data analytics or a related field from a regionally accredited institution or recognized foreign institution.
- The student should have a minimum cumulative GPA of 3.0 for all bachelor's level work completed.
- A competitive score on the combined quantitative and verbal sections of the Graduate Record Examination (GRE) or a competitive GMAT score taken within the last five years prior to admission to the program.
- A current curriculum vitae.

Application Deadlines

Big Data Analytics PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Edgard Maboudou, PhD
Professor
Edgard.Maboudou@ucf.edu
Telephone: 407-823-2695
TC2 201

Graduate Admissions

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Sciences MD/PhD Track

College: Medicine	Degree: PhD
Department: Burnett School of Biomedical Sciences	Option: Dissertation
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Track Description

The College of Medicine offers an integrated MD/PhD curriculum that enables students to fulfill all requirements and earn the Doctor of Medicine and the Doctor of Philosophy.

This program provides opportunity for MD students to obtain advanced research and training experience and for PhD students to obtain medical training. The program develops physician-scientists with preparation for both academic research and teaching careers. Physician-scientists are in an excellent position to facilitate bench-to-bedside translation of applicable research findings.

Curriculum

Students must fulfill all requirements for both programs to earn both the MD and PhD degrees. As indicated in the curriculum description, some medical modules can be substituted for certain graduate courses and vice versa to help reduce redundancy and streamline time to completion of this integrated program. Students will be able to complete the MD/PhD program in as few as 6 years, although most students will likely require 7-8 years to fulfill all of the requirements. An MD/PhD program committee consisting of faculty from both the medical and graduate programs will serve as the oversight committee responsible for tracking and evaluating student progress in this program.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students in the integrated MD/PhD Track in Biomedical Sciences must be accepted in the College of Medicine MD program and begin working on their PhD research project during the first two years of medical school. Students take medical courses during the first two years and must successfully pass the USMLE Step 1 exam at the end of year 2 prior to beginning full-time graduate studies in the Biomedical Sciences PhD Program. Required and elective graduate courses for the PhD program are completed in years 3-4 while the student is continuing research. Clinical clerkships that are typically completed in years 3-4 of medical school will in most cases be deferred until the student has completed the PhD program requirements, though some minimum level of ongoing clinical training will continue throughout the entire duration of the program. This ensures that the student remains connected with clinical education and training even while primarily focused on the graduate portion of the MD/PhD program.

The Biomedical Sciences PhD program requires a minimum of 72 credit hours beyond the bachelor's degree, including a minimum total of 27 hours of formal course work exclusive of independent study that are required. The 72 credit hours in the PhD program consists of 23 credit hours of core courses, 12 credit hours of electives, and a minimum of 15 credit hours of dissertation research. The remaining 22 credit hours may consist of additional electives, doctoral research and/or dissertation research. Students entering with a master's degree may request that up to 30 semester credit hours of previous course work be waived as degree requirements with approval from the dissertation committee.

The MD curriculum can be found here: <http://med.ucf.edu/academics/md-program/integrated-curriculum/>.

Programmatic deficiencies expected of applicants from diverse settings will be addressed early in the program by completion of appropriate course work. Students may register for doctoral research until they have been admitted to candidacy, after which they must register for dissertation research.

New students will rotate through at least two different laboratories to identify a faculty mentor/sponsor and research area of interest for their dissertation. Finally, a sequence of required seminars will familiarize students with field-related literature and introduce them to the conceptual and technical frameworks in which they will work. All students receiving assistantships must enroll full time.

MD/PhD students are required to maintain good academic standing in both the MD and PhD components of the curriculum. Students must first satisfactorily complete the first two years of the medical school curriculum and pass the USMLE Step 1 exam before they can begin full-time PhD enrollment.

Required Courses—21 Credit Hours

- BMS 6001 - Cellular Function and Medical Genetics **5 Credit Hours** (Medical Module replaces BSC 6432)
- BSC 6433 - Biomedical Sciences II **5 Credit Hours**
- IDS 7692L - Experiments in Biomedical Sciences **1-3 Credit Hours** (lab rotation)
- IDS 7692L - Experiments in Biomedical Sciences **1 Credit Hour** (lab rotation)
- IDS 7690 - Frontiers in Biomedical Sciences **1 Credit Hours** (two semesters, 1 credit hour each semester)
- BSC 6431 - Practice of Biomedical Sciences **3 Credit Hours**
- IDS 6694 - Experimental Design and Analysis in Biomedical Sciences **2 Credit Hours**

Elective Courses—12 Credit Hours

At least 12 hours of electives must be taken from the following list. Any electives not on this list must be approved by the Graduate Committee before being counted toward degree credit requirements. Directed research, doctoral research and dissertation research may be used to satisfy requirements beyond the first 12 hours, with approval from the program director. Students successfully completing the first year of medical school at UCF may substitute the following medical modules to fulfill the elective course requirement:

- BMS 6006 - Health and Disease **5 Credit Hours**
 - BMS 6050 - Psychosocial Issues in Healthcare **4 Credit Hours**
 - BMS 6631 - Hematology and Oncology **4 Credit Hours**
- Others: If approved by the Graduate Committee.

Additional Electives

Additional electives may be taken as needed from the following list of approved graduate courses:

- BSC 5418 - Tissue Engineering **3 Credit Hours**
- BSC 5436 - Biomedical Informatics : Structure Analysis **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
- CAP 5510 - Bioinformatics **3 Credit Hours**
- CHM 5305 - Bioconjugate Chemistry **3 Credit Hours**
- CHM 5450 - Polymer Chemistry **3 Credit Hours**
- CHM 5451C - Techniques in Polymer Science **3 Credit Hours**
- CHS 6251 - Applied Organic Synthesis **3 Credit Hours**

- CHS 6535 - Forensic Molecular Biology **3 Credit Hours**
- CHS 6535L - Forensic Analysis of Biological Materials **3 Credit Hours**
- CHS 6536 - Population Genetics and Genetic Data **3 Credit Hours**
- GEB 5516 - Technological Entrepreneurship **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- MCB 5205 - Infectious Processes **3 Credit Hours**
- MCB 5208 - Cellular Microbiology: Host-Pathogen Interactions **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- MCB 5505 - Molecular Virology **3 Credit Hours**
- MCB 5722C - Methods in Biotechnology **4 Credit Hours**
- MCB 5932 - Current Topics in Molecular Biology **VAR Credit Hours**
- MCB 5937 - ST: Cellular Metabolism **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- MCB 6417C - Microbial Metabolism **3 Credit Hours**
- PCB 5025 - Molecular and Cellular Pharmacology **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5265 - Stem Cell Biology **3 Credit Hours**
- PCB 5275 - Signal Transduction Mechanics **3 Credit Hours**
- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- PCB 5596 - Biomedical Informatics: Sequence Analysis **3 Credit Hours**
- PCB 5815 - Molecular Aspects of Obesity, Diabetes and Metabolism **3 Credit Hours**
- PCB 5838 - Cellular and Molecular Basis of Brain Functions **3 Credit Hours**
- PCB 6528 - Plant Molecular Biology **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- PCB 6677 - Molecular Evolution and Phylogenetics **3 Credit Hours**
- ZOO 5748C - Clinical Neuroanatomy **5 Credit Hours**

Unrestricted Electives—24 Credit Hours Minimum

Students should take 24 credit hours of electives, directed research, doctoral research or dissertation research, in consultation with their adviser.

Dissertation—15 Credit Hours Minimum

- IDS 7980 - Dissertation Research **15 Credit Hours**

Candidacy Examination

Candidacy will consist of writing and orally defending a proposal outlining a novel research idea to the dissertation committee. The written proposal will be prepared independently, following NIH-style grant format, and must be approved by the dissertation committee (see Biomedical Sciences PhD Program description for full description of Candidacy Exam requirements and procedures). After passing the candidacy examination and meeting other requirements as specified, the student can register for dissertation hours.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Successfully complete a minimum of 48 credit hours.
- Successful completion of Academic Integrity requirements.
- Successful completion of all coursework, except for dissertation hours.
- Successful completion of candidacy.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Dissertation Defense

The dissertation should be of significant scope and depth such that the work has made significant advances in the area of biomedical science. The Ph.D. dissertation research must generate sufficient quantity and quality data to support a minimum of two original manuscripts (first-authored by the student) in a mainstream journal in the field. One first-author original research article published or accepted for publication is required for pre-defense. In addition to meeting the pre-defense requirement for publication, a second manuscript must have been submitted and subjected to peer review before the defense.

Upon completion and approval of the doctoral dissertation by all designated faculty and university offices, the student will make a formal presentation of the research findings in a seminar format to the dissertation committee and other university faculty and students. The candidate will answer questions and defend conclusions about the subject matter.

Independent Learning

The dissertation serves as the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants entering the program with regular status are expected to have completed course work required for a bachelor's degree in chemistry, cell biology, biochemistry, biophysics, genetics, molecular biology or microbiology.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, MCAT score taken within the last five years. To send MCAT scores electronically, please use the AAMC score reporting system.
- Three letters of recommendation.
- Statement of research interest and purpose, including a summary of relevant work or research experience.
- Résumé.
- A personal or telephone interview.
- In addition to the above requirements, students must also meet the requirements for medical school admission: <http://med.ucf.edu/administrative-officers/>

- Admission is based on an overall assessment of the qualifications submitted and the interview. All admissions to the MD/PhD program are competitive and based on availability of faculty for sponsoring research.

Interested applicants must first apply to the UCF medical school through AMCAS and indicate on their medical school application that they are applying for MD/PhD.

Students interested in pursuing a combined MD/PhD degree must apply and be accepted into medical school and the Biomedical Sciences PhD program. Separate applications are required, and students wishing to pursue this joint degree program should indicate this and state their reasons on both applications.

AMCAS Application

Applicants must complete an application through the online American Medical College Application Service (AMCAS) at www.aamc.org. AMCAS is the national application service that processes applications for M.D. Programs throughout the nation. Through AMCAS, an applicant may apply to most M.D. programs by completing one application and paying the appropriate fees. AMCAS provides the college with applicant information immediately upon completion of AMCAS transcript verification process.

The AMCAS application period begins in late May and terminates on or before December 15 prior to the year in which the applicant anticipates enrollment. The AMCAS Application deadline is the date when students must submit the application, all fees, original transcripts, and associated data to AMCAS.

Applicants who are selected for medical school interviews at UCF will be invited to apply through the Graduate School portal for the PhD portion of the combined program. Please note that applications that do not come through AMCAS will not be considered for MD/PhD track.

Application Deadlines

MD / PHD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Steven Ebert PhD
Associate Professor
steven.ebert@ucf.edu
BBS 421

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285

Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Sciences PhD

College: Medicine	Degree: PhD
Department: Burnett School of Biomedical Sciences	Option: Dissertation
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Program Description

The Biomedical Sciences PhD program is an interdisciplinary program that combines biological and physical science. This program is intended to educate students in independent research and team collaboration within the field.

Curriculum

The Biomedical Sciences PhD program requires a minimum of 72 credit hours beyond the bachelor's degree, including a minimum total of 27 hours of formal course work exclusive of independent study that are required.

The program requires 23 credit hours of core courses, 12 credit hours of electives, and a minimum of 15 credit hours of dissertation research. The remaining 22 credit hours may consist of additional electives, doctoral research and/or dissertation research. Students with an earned master's degree may request that up to 30 credit hours of previous course work be waived.

New students will take a two-semester introductory course, participate in laboratory rotations to identify a research area of interest, and take a sequence of required seminars.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Programmatic deficiencies expected of applicants from diverse settings will be addressed early in the program by completion of appropriate course work. Students entering with a master's degree may request that up to 30 semester credit hours of previous course work be waived as degree requirements with approval from the dissertation committee. Students may register for doctoral research until they have been admitted to candidacy, after which they must register for dissertation research.

New students will take a two-semester course that provides an introduction to the interdisciplinary area of biomedical sciences. In addition, a laboratory rotation will allow students to have a brief but intensive experience working with faculty in at least two different research laboratories to find a research area of interest for their dissertation. Finally, a sequence of required seminars will familiarize students with field-related literature and introduce them to the conceptual and technical frameworks in which they will work. All students receiving assistantships must enroll full time.

Required Courses—23 Credit Hours

- BSC 6432 - Biomedical Sciences I **5 Credit Hours**
- BSC 6433 - Biomedical Sciences II **5 Credit Hours**
- IDS 7692L - Experiments in Biomedical Sciences **1-3 Credit Hours** (lab rotation)
- IDS 7692L - Experiments in Biomedical Sciences **1 Credit Hour** (lab rotation)
- IDS 7690 - Frontiers in Biomedical Sciences **1 Credit Hours** (four semesters, 1 credit hour each semester)
- BSC 6431 - Practice of Biomedical Sciences **3 Credit Hours**
- IDS 6694 - Experimental Design and Analysis in Biomedical Sciences **2 Credit Hours**

Elective Courses—12 Credit Hours

At least 12 hours of electives must be taken from the following list. Any electives not on this list must be approved by the Graduate Committee before being counted toward degree credit requirements. Directed research, doctoral research, and dissertation research may be used to satisfy requirements beyond the first 12 hours, with approval from the program director.

Others: If approved by the Graduate Committee.

- BSC 5418 - Tissue Engineering **3 Credit Hours**
- BSC 5436 - Biomedical Informatics : Structure Analysis **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
- CAP 5510 - Bioinformatics **3 Credit Hours**
- CHM 5305 - Bioconjugate Chemistry **3 Credit Hours**
- CHM 5450 - Polymer Chemistry **3 Credit Hours**
- CHM 5451C - Techniques in Polymer Science **3 Credit Hours**
- CHS 6251 - Applied Organic Synthesis **3 Credit Hours**
- CHS 6535 - Forensic Molecular Biology **3 Credit Hours**
- CHS 6535L - Forensic Analysis of Biological Materials **3 Credit Hours**
- CHS 6536 - Population Genetics and Genetic Data **3 Credit Hours**
- GEB 5516 - Technological Entrepreneurship **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- MCB 5205 - Infectious Processes **3 Credit Hours**
- MCB 5208 - Cellular Microbiology: Host-Pathogen Interactions **3 Credit Hours**
- MCB 5209 - Microbial Stress Response **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- MCB 5505 - Molecular Virology **3 Credit Hours**
- MCB 5722C - Methods in Biotechnology **4 Credit Hours**
- MCB 5932 - Current Topics in Molecular Biology **VAR Credit Hours**
- MCB 5415 - Cellular Metabolism **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- MCB 6417C - Microbial Metabolism **3 Credit Hours**
- PCB 5025 - Molecular and Cellular Pharmacology **3 Credit Hours**
- PCB 5235 - Molecular Immunology **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5265 - Stem Cell Biology **3 Credit Hours**

- PCB 5275 - Signal Transduction Mechanics **3 Credit Hours**
- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- PCB 5596 - Biomedical Informatics: Sequence Analysis **3 Credit Hours**
- PCB 5815 - Molecular Aspects of Obesity, Diabetes and Metabolism **3 Credit Hours**
- PCB 5838 - Cellular and Molecular Basis of Brain Functions **3 Credit Hours**
- PCB 6528 - Plant Molecular Biology **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- PCB 6677 - Molecular Evolution and Phylogenetics **3 Credit Hours**
- ZOO 5748C - Clinical Neuroanatomy **5 Credit Hours**

Unrestricted Electives—22 Credit Hours Minimum

Students should take 22 credit hours of electives, directed research, doctoral research or dissertation research, in consultation with their adviser.

Dissertation—15 Credit Hours Minimum

- IDS 7980 - Dissertation Research **15 Credit Hours**

Candidacy Examination

Candidacy will consist of writing and orally defending a proposal outlining a novel research idea to the dissertation committee. The written proposal will be prepared independently, following NIH-style grant format, and must be approved by the dissertation committee (see Biomedical Sciences PhD Program Handbook for full description of Candidacy Exam requirements and procedures). After passing the candidacy examination and meeting other requirements as specified, the student can register for dissertation hours.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Successfully complete a minimum of 48 credit hours.
- Successful completion of all coursework, except for dissertation hours.
- Successful completion of candidacy examination.
- Successful defense of the written dissertation proposal.
- Successful completion of Academic Integrity requirements
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Dissertation Defense

The dissertation should be of significant scope and depth such that the work has made significant advances in the area of biomedical science. The Ph.D. dissertation research must generate sufficient quantity and quality data to support a minimum of two original manuscripts (first-authored by the student) in a mainstream journal in the field. One first-author original research article published or accepted for publication is required for pre-defense. In addition to meeting the pre-defense requirement for publication, a second manuscript must have been submitted and subjected to peer review before the defense.

Upon completion and approval of the doctoral dissertation by all designated faculty and university offices, the student will make a formal presentation of the research findings in a seminar format to the dissertation committee and other university faculty and students. The candidate will answer questions and defend conclusions about the subject matter.

Independent Learning

The dissertation serves as the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants entering the program with regular status are expected to have completed course work required for a bachelor's degree in chemistry, cell biology, biochemistry, biophysics, genetics, molecular biology or microbiology.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Statement of research interest and purpose, including a summary of relevant work or research experience.
- Résumé or CV.
- A personal or telephone interview.

Admission is based on an overall assessment of the qualifications submitted and the interview. All admissions to graduate status are competitive and based on availability of faculty for sponsoring research.

Application Deadlines

Biomedical Sciences PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saleh Naser PhD

Professor

saleh.naser@ucf.edu

Telephone: 407-823-0955

UCF College of Medicine

Jihe Zhao PhD

Associate Professor

jihe.zhao@ucf.edu

Telephone: 407-266-7099

BBS 316

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Business Administration PhD

College: Business Administration	Degree: PhD
Department: Business Administration	Option: Dissertation
Program Websites: http://business.ucf.edu/graduate-programs/	

Program Description

The Business Administration PhD program prepares students for careers in higher education and management. Students may choose from four tracks: Accounting, Finance, Management and Marketing.

The objective of the doctoral program in Business Administration is to prepare students for academic careers in higher education and management careers within profit and nonprofit organizations. Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

Program Tracks

- Business Administration PhD, Accounting Track
- Business Administration PhD, Finance Track
- Business Administration PhD, Management Track
- Business Administration PhD, Marketing Track

Curriculum

Total Credit Hours Required: 84 Credit Hours Minimum beyond the Bachelor's Degree

Upon admission to the Business Administration doctoral program, the student will be assigned an adviser. With the approval of the adviser, the student will complete a program of study including the following requirements.

General Preparation and Course Work

- MBA degree or equivalent—30 credit hours: Each track may specify different requirements for this category.
- Major—12-21 hours.
- Minor/Support Area—6-9 credit hours.
- Research Tools—12-15 credit hours: All doctoral students are required to take two applied statistics courses. Other research tool courses will be specified by the track.
- Teaching—Each track will require some education related to teaching. It may take the form of classes, noncredit seminars, mentoring or a teaching requirement.
- Candidacy Examination: The student must successfully complete a comprehensive candidacy examination. This exam has written and oral parts and covers the candidate's program of study. Students are admitted to candidacy after satisfying all general degree requirements, passing the comprehensive exam, and fulfilling the residency requirement.
- Dissertation—15 credit hours: The student must successfully defend a written dissertation proposal in an oral examination conducted by the student's advisory/dissertation committee. The final defense of the successful dissertation will require an oral examination that concentrates on, but is not limited to, the student's dissertation defense.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements and deadlines.

The next admission cycle for this program is Fall 2023.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

See individual tracks for contact information.

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Business Administration PhD, Accounting Track

College: Business Administration	Degree: PhD
Department: Kenneth G. Dixon School of Accounting	Option: Dissertation
Program Websites: http://business.ucf.edu/graduate-programs/	
Graduate Program Handbook	

Track Description

The objective of the Accounting track in the Business Administration PhD program is to prepare students for academic careers at major research universities.

Dixon School faculty guide student learning through a combination of coursework and hands-on research projects with the objective of contributing new insights to the field. Students immerse themselves in classic and cutting-edge research in accounting, theories drawn from psychology, economics and/or sociology as well as the methods used to discover and evaluate new ideas in the field. Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

The program requires a full-time commitment on the part of the students supported by stipends, tuition waivers, health insurance options etc. as described in the Graduate Student Handbook and on the College of Graduate Studies website.

Curriculum

The Accounting track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of accounting core courses, 12 credit hours of research methods/tools courses, 9 credit hours of electives, and 15 credit hours of dissertation.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites: Foundation Body of Knowledge—18 Credit Hours

In the Accounting track of the Business Administration PhD program, the foundation body of knowledge may be satisfied with a master's degree in Accounting, Business Administration, Taxation or its equivalent from an Association to Advance Collegiate Schools of Business (AACSB) accredited school that includes certain accounting courses deemed essential by the Accounting PhD coordinator. Alternatively, this requirement may be satisfied by courses approved by the School of Accounting's doctoral advisory committee.

Required Courses—30 Credit Hours

Accounting Core—18 Credit Hours

- ACG 7157 - Seminar in Archival Research in Accounting **3 Credit Hours**
- ACG 7399 - Seminar in Behavioral Accounting Research **3 Credit Hours**
- ACG 7826 - Seminar in the Social and Organizational Context of Accounting **3 Credit Hours**
- ACG 7885 - Research Foundations in Accounting **3 Credit Hours**
- ACG 7887 - Accounting Research Forum **1 Credit Hours** (Workshop, 1 credit hour per semester, 4 credit hours total)
- ACG 6908 Directed Independent Study (2 credit hours)

Research Methods/Tools—12 Credit Hours

The research tools requirement is intended to ensure a thorough exposure to research methods. All candidates are expected to demonstrate knowledge of statistical methods as well as usage of statistical packages, including design, analysis, and interpretation of results. Research tools courses should be approved by the PhD Director. Examples of courses that will satisfy this requirement include:

- PSY 6216C - Research Methodology **4 Credit Hours**
- PSY 6308C - Psychological Testing **4 Credit Hours**
- PSY 7217C - Advanced Research Methodology I **4 Credit Hours**
- PSY 7218C - Advanced Research Methodology II **4 Credit Hours**
- PSY 7219C - Advanced Research Methodology III **4 Credit Hours**
- PSY 7315 - Psychometric Theory and Practice **3 Credit Hours**
- ECO 6424 - Econometrics I **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- SYA 6315 - Qualitative Research Methods **3 Credit Hours**
- SYA 6425 - Design and Conduct of Social Surveys **3 Credit Hours**

Elective Courses—9 Credit Hours

Restricted—3 Credit Hours

Choose one of the following accounting courses:

- ACG 7390 - Seminar in Managerial Accounting Research **3 Credit Hours**
- ACG 7888 - Seminar in Critical Accounting and AIS **3 Credit Hours**
- ACG 7917 - Advanced Research Methods in Accounting and Accounting Information Systems Research **3 Credit Hours**
- Other accounting electives as they are developed for the program

Unrestricted—6 Credit Hours

Students must take 6 credit hours in a minor/support area. Students must select a minimum of six credit hours in a unified area approved by the PhD Director. Each student's program of study is individually tailored to accommodate interests whenever possible. This coursework may be developed from offerings in the following areas with the advice and consent of the respective departments and the advisory committee:

- Marketing
- Economics
- Political Science
- Psychology
- Gender Studies
- Management
- Sociology
- Environmental Studies
- Communication
- Philosophy
- Public Affairs

Dissertation—15 Credit Hours

- ACG 7980 Dissertation **15 credit hours** (minimum)

Admission to Candidacy

Students must complete a comprehensive candidacy examination that includes written and oral portions. Students must defend a written dissertation proposal in an oral examination conducted by the student's advisory/dissertation committee. The final defense of the dissertation will also require an oral examination.

Students officially enter candidacy when the following has been accomplished:

- Completion of all course work, except for dissertation hours.
- Successful completion of the comprehensive candidacy examination.

Teaching Requirement

The requirements for the teaching component of the degree will be developed with the doctoral program director based on the student's experience. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of a faculty member. As appropriate, students will also be required to attend teaching development workshops and seminars.

Independent Learning

The dissertation serves as the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Other: Previous publications and/or other relevant supporting documentation.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for the fall semester, every other year; however, exceptions may be made in some cases. All interested students should contact the program director for their track for information about applying to this program. The college strongly encourages applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

Application Deadlines

Accounting	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Khim Kelly PhD

Professor

Khim.Kelly@ucf.edu

Telephone: 407-823-2150

BA1 - 409E

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Business Administration PhD, Finance Track

College: Business Administration	Degree: PhD
Department: Finance	Option: Dissertation
Program Websites: http://business.ucf.edu/graduate-programs/	
Graduate Program Handbook	

Track Description

The Finance track in the Business Administration PhD program prepares students for careers in higher education and management within profit and nonprofit industries.

Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

Curriculum

The Finance track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of finance core courses, 6 credit hours of a minor/support area, 12 credit hours of research methods/tools courses, 3 credit hours of electives, and 15 credit hours of dissertation.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Required courses for all students are indicated with an asterisk in the lists below. Specific courses from the foundation body of knowledge category are determined based on a student's background in consultation with the doctoral program coordinator. Required course work prior to beginning study includes successful completion of at least a two-course sequence of 6 credit hours of calculus and previous course work in economics, finance, and statistics. The program requires 27 hours of formal course work, exclusive of independent study, as well as 15 credit hours of dissertation research.

Prerequisites—Foundation Body of Knowledge: 18 Credit Hours

In the Finance track of the Business Administration PhD program, the foundation body of knowledge includes (a) the finance, accounting, statistics and economics common body of knowledge in a MBA degree or its equivalent and (b) graduate courses in financial management, investments, financial institutions and international finance. Alternatively, this requirement may be satisfied by courses deemed essential by the Finance track program coordinator in consultation with the PhD committee.

Required Courses: 39 Credit Hours

Finance Core: 18 Credit Hours

- FIN 7935 - Finance Research Forum **3 Credit Hours**
- FIN 7808 - Introduction to the Theory of Finance **3 Credit Hours**
- FIN 7807 - Corporate Finance Theory **3 Credit Hours**
- FIN 7816 - Investment Theory **3 Credit Hours**
- FIN 7845 - Empirical Methods I **3 Credit Hours**
- FIN 7864 - Empirical Methods II **3 Credit Hours**
- Other courses as deemed acceptable by the doctoral program coordinator.

Minor/Support Area: 6 Credit Hours

- ECO 6118 - Microeconomic Theory I **3 Credit Hours**
- ECO 7116 - Microeconomic Theory II **3 Credit Hours**

Research Methods/Tools: 12 Credit Hours

- ECO 6403 - Mathematical Economics **3 Credit Hours**
- ECO 6424 - Econometrics I **3 Credit Hours**
- ECO 7426 - Econometrics II **3 Credit Hours**
- ECO 6404 - Games and Economic Behavior **3 Credit Hours**
- ACG 7157 - Seminar in Archival Research in Accounting **3 Credit Hours**
- Other courses as deemed acceptable by the doctoral program coordinator.

Elective: 3 Credit Hours

- Elective course approved by the doctoral program coordinator **3 Credit Hours**

Dissertation: 15 Credit Hours

- FIN 7980 - Dissertation **15 Credit Hours minimum**

Admissions to Candidacy

Students must complete a comprehensive candidacy examination that includes written and oral portions.

Students must defend a written dissertation proposal in an oral examination conducted by the student's advisory/dissertation committee. Students officially enter candidacy when the following have been accomplished:

- Completion of all course work, except for dissertation hours.
- Successful completion of the comprehensive candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Students must defend a written dissertation proposal in an oral examination conducted by the faculty, at least one semester prior to their final dissertation defense.

The final defense of the dissertation will also require an oral examination.

Teaching Requirement

The requirements for the teaching component of the degree will be developed with the doctoral graduate program director based on the student's experience. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of a faculty member. As appropriate, students will also be required to attend teaching development workshops and seminars.

Independent Learning

The dissertation serves as the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.

- Other: Previous publications and/or other relevant supporting documentation.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for fall semester, every other year. All interested students should contact the program director for their track for information about applying to this program. The college strongly encourages applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

Application Deadlines

Finance	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

Qinghai Wang PhD
 Professor
 Qinghai.Wang@ucf.edu

Telephone: 407-823-6453
BA 410

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
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<http://finaid.ucf.edu>

Business Administration PhD, Management Track

College: Business Administration	Degree: PhD
Department: Management	Option: Dissertation

Program Websites: http://business.ucf.edu/graduate-programs/
Graduate Program Handbook

Track Description

The objective of the Management track in the Business Administration PhD program is to prepare students for academic careers at major research universities.

Management Department faculty members help students understand current approaches to explaining and investigating management processes and facilitate research projects aimed at contributing new insights to the field. Our students immerse themselves in the timely and timeless lessons offered by management scholars, as well as the methods used to discover and evaluate new ideas. This training also provides our students with the knowledge and critical perspective necessary to be master educators. The Management program is designed to produce well-rounded members of our profession who are well prepared to contribute to the research, education, and service missions of the Management discipline. The program requires a full-time commitment on the part of the students, allowing no time for secondary outside employment. Stipends, tuition waivers, health insurance options, described in the Graduate Student Handbook and on the College of Graduate Studies website, provide the financial resources that support this full-time status.

Curriculum

The Management track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of management core courses, 6 credit hours of a minor/support area, 12 credit hours of research methods/tools courses, 3 credit hours of electives, and 15 credit hours of dissertation.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

The general expectation for the Management program follows. The program is tailored to the needs of the individual student and may require work that is not included in the following descriptions. The program requires 39 hours of formal course work exclusive of independent study as well as 15 credit hours of dissertation research (MAN 7980).

Prerequisites: Foundation Body of Knowledge—18 Credit Hours

The foundation body of knowledge includes the common body of knowledge in an MBA degree or its equivalent from an AACSB-accredited or comparable school. This requirement may be satisfied with a master's degree in Management or by courses deemed essential by the Management track program coordinator.

Required Courses—39 Credit Hours

Management Core—18 Credit Hours

- MAN 7275 - Organizational Behavior **3 Credit Hours**
- MAN 7207 - Organization Theory **3 Credit Hours**
- MAN 7900 - Directed Readings in Management **3 Credit Hours**
- MAN 7916 - Seminar in Management Research **Var Credit Hours**
- MAN 7776 - Business-level Strategic Management **3 Credit Hours**

Minor/Support Area—6 Credit Hours

Students may select a minimum of six credit hours, typically within a unified area, approved by the student's adviser and the program coordinator. Each student's program of study is individually tailored to accommodate student interests, and often emphasizes additional training in research methodology necessary to produce high quality scholarly research.

Research Methods/Tools—12 Credit Hours

The research tools requirement is intended to ensure a thorough exposure to research methods. All candidates are expected to demonstrate knowledge of statistical methods as well as usage of statistical packages. This includes design, analysis, and interpretation of results. The student's advisory committee and the program coordinator will recommend and/or approve specific courses for each student. Representative courses include, but are not limited to the following:

- PSY 6216C - Research Methodology **4 Credit Hours**
- PSY 7217C - Advanced Research Methodology I **4 Credit Hours**
- PSY 7218C - Advanced Research Methodology II **4 Credit Hours**
- PSY 7219C - Advanced Research Methodology III **4 Credit Hours**
- GEB 7911 - Structural Equation Modeling for Business Research **3 Credit Hours**
- MAR 7626 - Multivariate Analysis for Business Research **3 Credit Hours**
- EDF 7427 - Psychometrics **3 Credit Hours**
- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- STA 6237 - Nonlinear Regression **3 Credit Hours**
- STA 6507 - Nonparametric Statistics **3 Credit Hours**
- STA 6707 - Multivariate Statistical Methods **3 Credit Hours**

Elective—3 Credit Hours

- Elective course approved by the faculty adviser **3 Credit Hours**

Dissertation—15 Credit Hours

- MAN 7980 - Dissertation Research **15 Credit Hours minimum**

Admission to Candidacy

Students must complete a comprehensive candidacy examination that includes written and oral portions. This usually takes place near the end of coursework, in the late second year or early third year of the program.

Students officially enter candidacy when the following have been accomplished:

- Completion of all course work, except for dissertation hours.
- Successful completion of the comprehensive candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Students must defend a written dissertation proposal in an oral examination conducted by the faculty, at least one semester prior to their final dissertation defense. The final defense of the dissertation will also require an oral examination.

Teaching Requirement

The requirements for the teaching component of the degree will be developed with the doctoral graduate program director based on the student's experience. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of a faculty member. As appropriate, students will also be required to attend teaching development workshops and seminars.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Other: Previous publications and/or other relevant supporting documentation.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for the fall semester, every other year. In evaluating applicants, the committee considers all materials submitted. This committee made up of our most research-active faculty, the program director, and program coordinator, considers favorably: past academic writing/projects, collaborative work with distinguished faculty, prior career success, standardized scores on the GMAT or GRE, and letter of intent. Given that our program is designed as an "immersion" into the academic inquiry, we look for applicants who demonstrate a level of intellectual curiosity that will drive their research efforts. GMAT/GRE scores should be competitive for full consideration. Generally, successful applicants score at or higher than the 50% ranking on both verbal and quantitative portions of the tests. Admissions are competitive, and standardized scores are often considerably higher than this. Consideration of candidates generally begins in mid-January and continues until we have the number of accepted offers we intend to accept. Generally, a cohort consists of 4-6 students. Our program supports students with interest in the primary areas of Strategic Management, Organizational Behavior, and Entrepreneurship. Letters of intent should reflect the particular area of interest the applicant is pursuing. The college strongly encourages applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

Application Deadlines

Management	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

Steven Whiting, PhD

Associate Professor

Steven.Whiting@ucf.edu

Telephone: 407- 823-1714

BA1 339

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Business Administration PhD, Marketing Track

College: Business Administration	Degree: PhD
Department: Marketing	Option: Dissertation
Program Websites: http://business.ucf.edu/graduate-programs/	
Graduate Program Handbook	

Track Description

The objective of the Marketing track in the Business Administration PhD program is to prepare students for academic careers in higher education and management careers within profit and nonprofit organizations. Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

Curriculum

The Marketing track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of marketing core courses, 9 credit hours of a minor/support area, 12 credit hours of research methods/tools courses, and 15 credit hours of dissertation.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites—Foundation Body of Knowledge: 18 Credit Hours

In the Marketing track of the Business Administration PhD program, this requirement can be met with an approved Master's degree. Alternatively, this requirement may be satisfied by courses deemed essential by the department's PhD coordinator in consultation with the PhD committee.

Required Courses: 39 Credit Hours

Marketing Core: 18 Credit Hours

- MAR 7575 - Seminar in Consumer Behavior **3 Credit Hours**
- MAR 7638 - Seminar in Marketing Theory, Scaling, and Measurement **3 Credit Hours**
or an equivalent course as determined by the Department Chair in consultation with PhD coordinator.
- MAR 7666 - Seminar in Marketing Models I **1.5 Credit Hours**
- MAR 7667 - Seminar in Marketing Models II **1.5 Credit Hours**
- MAR 7807 - Seminar in Marketing Strategy I **1.5 Credit Hours**
- MAR 7808 - Seminar in Marketing Strategy II **1.5 Credit Hours**
- MAR 7919 - Special Topics: Doctoral Research Projects in Summer I and Spring II **6 Credit Hours**

Minor/Support Area: 9 Credit Hours

A minimum of nine hours of course work is required in a minor/support area. The course work should be from a unified area and will be planned with the advice and consent of the department's PhD coordinator in consultation with the PhD committee.

Research Methods/Tools: 12 Credit Hours

The department's doctoral advisory committee and the PhD Coordinator will determine the additional research tools courses.

- MAR 7626 - Multivariate Analysis for Business Research **3 Credit Hours**
- Additional courses approved by the PhD coordinator in consultation with the PhD committee **9 Credit Hours**

Dissertation: 15 Credit Hours

- MAR 7980 - Dissertation **15 Credit Hours minimum**

Admission to Candidacy

Students must successfully pass a readiness exam in the first summer. In the second summer of the program after course work has been completed students must pass a comprehensive candidacy examination that includes written and oral portions.

Students officially enter candidacy when the following have been achieved:

- Successful completion of all course work (excluding dissertation hours).
- Successful completion of the readiness exam administered in the first summer.
- Successful completion of the comprehensive candidacy exam administered in the second summer.
- Formation of the dissertation advisory committee, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Students must defend a written dissertation proposal in an oral examination conducted by the faculty, at least one semester prior to their final dissertation defense.

The final defense of the dissertation will require an oral examination.

Teaching Requirement

The requirements for the teaching component of the doctoral degree will be developed by the Department Chair in consultation with the PhD coordinator. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of the Department Chair or his/her designee. As appropriate, students will also be required to attend teaching development seminars and workshops.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Research Statement.
- Résumé.
- Other: Previous publications and/or other relevant supporting documentation.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for fall semester, every other year. All interested students should contact the program director for their track for information about applying to this program. The college strongly encourages

applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

Application Deadlines

Marketing	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. The department starts reviewing applications after the Fall Priority Deadline.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

Xin He PhD

Associate Professor

Xin.He@ucf.edu

Telephone: 407-823-1329

BA2 308N

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
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Chemistry PhD

College: Sciences	Degree: PhD
Department: Chemistry	Option: Dissertation
Program Websites: http://sciences.ucf.edu/chemistry/	
Graduate Program Handbook	

Program Description

The Chemistry PhD program focuses on all areas of modern chemistry with faculty actively engaged in research in the often interdisciplinary fields of Materials Chemistry, Environmental Chemistry, Forensic Science, Biochemistry and Chemical Education. The training prepares future scientists and educators for research within contemporary subjects which yield graduates that are very competitive when entering the workforce in industry, government, and academic positions.

The PhD program in Chemistry provides a doctoral education in five technical focal areas: Materials Chemistry, Environmental Chemistry, Forensic Science, Biochemistry and Chemical Education, drawing upon the strengths of the Department of Chemistry and other units, such as the College of Optics and Photonics, Advanced Materials Processing and Analysis Center, National Center of Forensic Science, Nanoscience and Technology Center, College of Medicine, College of Engineering and Computer Science, and the College of Community Innovation and Education. These areas meet the ever-pressing demand for the development of new materials, the increasing urgency of addressing crucial environmental and security problems, and new methods and understanding for STEM education. The curriculum has been formulated in collaboration with industrial, government, and academic scientists and represents a response to current and projected competencies needed by industry and the scientific community. The purpose of the program is to develop scientists and educators capable of conducting research to solve important problems in contemporary fields of the chemical sciences while preparing a highly skilled work force to ensure the technological/economic health and competitiveness in Central Florida and the nation.

Curriculum

The Chemistry PhD program requires 72 credit hours beyond the bachelor's degree with a minimum 18 credit hours of electives in the chosen sub-discipline, an original research project, and dissertation presentation. At least 27 hours of formal course work, exclusive of independent study, are required in order to fulfill degree requirements. This includes four core courses and four electives, three of which must be taken from Chemistry. Six credit hours of directed research are also required; additional courses may be specified by the student's research adviser.

All transferred coursework must be approved by the Graduate Program Director. Transfer coursework is limited to 30 hours from a completed Master's degree. Students whose Master's degree was obtained abroad must have it officially evaluated to be equivalent to a Master's degree in the USA. The 7-year rule is not applied if the coursework is transferred in from a completed Master's degree. If a Master's degree is not received, then the student is limited to 9 hours of transfer coursework.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

One of the primary means of education and training in the PhD program is achieved through successful completion of an original research project, close mentorship by their research adviser and the presentation and defense of the PhD dissertation. This intense research experience provides the education and training necessary for the student to substantiate his/her expertise and develop the skills necessary to become an independent professional.

By the second semester, students will choose a dissertation adviser and establish a program of study. Students will take a seminar course a minimum of seven times. A final seminar credit hour will be taken in preparation for the dissertation defense. During this semester, the student will present a seminar to the department on their dissertation research. The research adviser and graduate program director will establish an advisory committee for each student. Students must maintain a 3.0 GPA or higher.

Required Courses: 19 Credit Hours

Core: 12 Credit Hours

Students must take four of the following courses.

If a student successfully completes all five core courses, one course will count toward fulfilling the electives requirement.

- CHM 6710 - Applied Analytical Chemistry **3 Credit Hours**
- CHM 6440 - Kinetics and Catalysis **3 Credit Hours**
- CHS 6251 - Applied Organic Synthesis **3 Credit Hours**
- CHS 6240 - Chemical Thermodynamics **3 Credit Hours**
- BCH 6740 - Advanced Biochemistry **3 Credit Hours**

Seminar: 7 Credit Hours

- CHM 6936 - Graduate Chemistry Seminar **1 Credit Hours** (six seminar credits must be taken prior to presenting candidacy; the seventh seminar credit will be taken the semester before anticipated graduation)

Elective Courses: 18-38 Credit Hours in Chosen Concentration

Directed Research: 6 Credit Hours

- CHM 6918 - Directed Research **VAR Credit Hours**

Elective Courses: 12 Credit Hours

- Selected from courses list below or chosen by adviser

Additional Courses: 0-20 Credit Hours

Students who enter the program with a master's degree need to take four elective courses (12 credit hours) and 6 credit hours of directed research. They may choose four courses from the departmental offerings or three courses from the departmental offerings and one from outside of the department. Directed research will always be within the department. Students who enter the program without a master's degree will be required to take 20 additional hours for a total of 38 credit hours of a combination of elective and research courses.

A program of study requires 27 hours of total formal course work exclusive of independent study. Students and advisers need to be careful about how elective courses are selected so that at least 12 credit hours of electives must be formal course work, exclusive of independent study. Doctoral research, dissertation research, independent study and directed research may also be used to satisfy additional hours in the concentration.

Materials Chemistry Concentration

Choose from the following courses (one may be from outside the department) in addition to 6 hours of directed research.

- CHM 5225 - Advanced Organic Chemistry **3 Credit Hours**
- CHM 5580 - Advanced Physical Chemistry **3 Credit Hours**
- CHS 6260 - Chemical Unit Operations and Separations **3 Credit Hours**
- CHM 6711 - Chemistry of Materials **3 Credit Hours**
- CHM 6620 - Solid State Inorganic Chemistry **3 Credit Hours**
- CHM 5450 - Polymer Chemistry **3 Credit Hours**

- CHM 5451C - Techniques in Polymer Science **3 Credit Hours**
- CHM 5305 - Bioconjugate Chemistry **3 Credit Hours**
- CHM 6938 - Special Topics **3 Credit Hours**
- CHM 5235 - Applied Molecular Spectroscopy **3 Credit Hours**
- CHM 6134 - Advanced Instrumental Analysis **3 Credit Hours**
- CHM 7938 - Frontiers in Chemistry **1 Credit Hours** (three semesters, 1 credit hour each semester)
- CHM 7919 - Directed Research in Materials Chemistry **6 Credit Hours**

Courses from outside the Chemistry Department.

- OSE 5203 - Geometrical Optics **3 Credit Hours**
- OSE 6313 - Materials for Optical Systems **3 Credit Hours**
- OSE 5414 - Fundamentals of Optoelectronic Devices **3 Credit Hours**
- EMA 5504 - Modern Characterization of Materials **3 Credit Hours**
- EMA 6518 - Transmission Electron Microscopy **3 Credit Hours**
- EMA 5108 - Surface Science **3 Credit Hours**
- EMA 6129 - Solidification and Microstructure Evolution **3 Credit Hours**
- EMA 6130 - Advanced Phase Transformations in Materials **3 Credit Hours**
- EMA 6136 - Diffusion in Solids **3 Credit Hours**
- EMA 6516 - X-ray Diffraction and Crystallography **3 Credit Hours**
- PHY 5933 - Selected topics in biophysics of macromolecules **3 Credit Hours**
- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- BSC 5408L - Advanced Biology Laboratory Techniques **3 Credit Hours**

Environmental Chemistry Concentration

Choose from the following courses (one may be from outside the department) in addition to 6 hours of directed research.

- CHS 6260 - Chemical Unit Operations and Separations **3 Credit Hours**
- CHS 6613 - Current Topics in Environmental Chemistry **3 Credit Hours**
- CHS 6508 - Advanced Mass Spectrometry for Forensic Science **3 Credit Hours**
- CHM 5235 - Applied Molecular Spectroscopy **3 Credit Hours**
- CHM 5580 - Advanced Physical Chemistry **3 Credit Hours**
- CHM 6134 - Advanced Instrumental Analysis **3 Credit Hours**

Courses from outside the Chemistry Department.

- ENV 5410 - Water Treatment **3 Credit Hours**
- ENV 6046 - Membrane Mass Transfer **3 Credit Hours**
- ENV 6055 - Fate and Transport of Subsurface Contaminants **3 Credit Hours**
- ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling **3 Credit Hours**
- ENV 6126 - Design of Air Pollution Controls **3 Credit Hours**
- ENV 6336 - Site Remediation and Hazardous Waste Treatment **3 Credit Hours**
- ENV 6519 - Aquatic Chemical Processes **3 Credit Hours**
- ENV 6558 - Industrial Waste Treatment **3 Credit Hours**

Forensic Science Concentration

Choose from the following courses in addition to 6 hours of directed research.

- CHS 6545 - Forensic Analysis of Explosives **3 Credit Hours**
- CHS 6546 - Forensic Analysis of Ignitable Liquids **3 Credit Hours**
- CHM 6134 - Advanced Instrumental Analysis **3 Credit Hours**
- CHM 5451C - Techniques in Polymer Science **3 Credit Hours**
- CHM 6938 - Special Topics **3 Credit Hours**
- CHS 6535 - Forensic Molecular Biology **3 Credit Hours**
- CHS 6535L - Forensic Analysis of Biological Materials **3 Credit Hours**
- CHS 6536 - Population Genetics and Genetic Data **3 Credit Hours**
- CHM 7938 - Frontiers in Chemistry **1 Credit Hours** (three semesters, 1 credit hour each semester)
- CHM 7919 - Directed Research in Forensic Science **6 Credit Hours**

Biochemistry Concentration

Choose from the following courses (one may be from outside the department) in addition to 6 hours of directed research.

- CHM 5305 - Bioconjugate Chemistry **3 Credit Hours**
- CHM 5235 - Applied Molecular Spectroscopy **3 Credit Hours**
- CHM 5225 - Advanced Organic Chemistry **3 Credit Hours**
- CHM 5580 - Advanced Physical Chemistry **3 Credit Hours**
- CHS 6535 - Forensic Molecular Biology **3 Credit Hours**
- CHS 6535L - Forensic Analysis of Biological Materials **3 Credit Hours**
- CHS 6536 - Population Genetics and Genetic Data **3 Credit Hours**
- CHM 7938 - Frontiers in Chemistry **1 Credit Hours** (three semesters, 1 credit hour each semester)
- CHM 7919 - Directed Research in Biochemistry **3 Credit Hours**

Courses from outside the Chemistry Department.

- PHY 5933 - Selected topics in biophysics of macromolecules **3 Credit Hours**
- MCB 5654 - Applied Microbiology **3 Credit Hours**
- MCB 6417C - Microbial Metabolism **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- EMA 6516 - X-ray Diffraction and Crystallography **3 Credit Hours**
- EMA 6518 - Transmission Electron Microscopy **3 Credit Hours**

Dissertation: 15 Credit Hours Minimum

Within three months before defending the dissertation, the student will present a dissertation research seminar to the Department of Chemistry, registering for one credit hour of seminar.

- CHM 7980 - Doctoral Dissertation **15 Credit Hours**

Qualifying Examinations

Students will be expected to satisfy qualifying (proficiency) requirements (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry) during the first year by taking exams in four of these five areas. Additional course work may be required if one or more of the qualifying exams is not satisfied. These exams may be waived if the entering student possesses an MS degree in the Chemical Sciences. Satisfaction of this requirement will help ensure that all students are adequately prepared for the core courses. If a student does not satisfy the proficiency exam requirements within the first year, the student may be subject to dismissal from the program.

Candidacy Examination

By the end of the sixth semester (excluding summers), students must pass the PhD candidacy oral examination. The candidacy examination consists of writing and orally defending an original research proposal to the student's program faculty advisory committee. The research proposal will focus on a topic not directly related to the student's dissertation research and must be approved by the adviser and advisory committee. Failure to pass the PhD candidacy exam will result in dismissal from the program.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all required and formal elective course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Dissertation Defense

The final requirement for the PhD degree is completion of a satisfactory written dissertation of the student's research, along with successful presentation and defense of the dissertation to the advisory committee, including one doctorate-holding non-program faculty member.

Equipment Fee

Full-time students in the Chemistry PhD program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

The grounding in scientific research methodology provided by the dissertation requirement is a central focus of the proposed program. Students will conduct research either on site or at the professional laboratories where they work. In either case, a member of the UCF Chemistry Department graduate faculty will act as research adviser and approve the research topic. This research culminates in the writing and presentation of the dissertation. The student will present his/her dissertation for examination by a committee consisting of a minimum of five members including the research adviser. One of the committee members will be from outside the Chemistry department. A majority of the program committee members will hold tenure-earning faculty appointments in the Chemistry Department. The committee has to

be approved by the Graduate Coordinator of the Chemistry program and the department Chair. The dissertation must be judged worthy of publication by the dissertation committee and may not be submitted for examination until so deemed. For students performing their dissertation research off campus, the dissertation adviser will visit the student's laboratory, where their research is to be performed, before the research begins and on a regular basis until the work is complete.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in the Chemical Sciences or a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendations.
- A statement of purpose.
- Résumé.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Chemistry PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1	Jul 1	
International Applicants	Jan 1	Jan 1	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Qun Ho PhD

Professor

Qun.Huo@ucf.edu

Telephone: 407-882-2845

PVL 0422

Michelle Salcedo

michelle.salcedo@ucf.edu

Telephone: 407-823-5728

PSB 255

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Civil Engineering PhD

College: Engineering and Computer Science	Degree: PhD
Department: Civil, Environmental, and Construction Engineering	Option: Dissertation
Program Websites: http://www.cece.ucf.edu/	
Graduate Program Handbook	

Program Description

The Civil Engineering PhD program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society. The Civil Engineering PhD program includes courses and research in structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, water resources engineering, and smart cities. The degree will prepare students for roles in consulting firms, civil and construction-related industries, academic institutions, and city, county, state and federal government agencies.

Faculty research interests include subsurface conditions and soil testing, geotechnical materials, soil and structural dynamics, intelligent transportation systems, traffic safety, nonlinear structural analysis, reinforced concrete, structural health monitoring, sensors and data analytics for infrastructure, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-PhD.pdf>.

Curriculum

The PhD in Civil Engineering is a research-oriented degree that requires course work combined with intensive research. The program requires a minimum of 72 credit hours beyond the bachelor's degree. Thirty of the 72 credit hours can be met with either a nonthesis or thesis MS in Civil Engineering. This leaves 42 credit hours, of which 18 credit hours must be Dissertation Research and a minimum of 15 credit hours must be formal course work. A maximum of 9 credit hours of Doctoral Research hours can be used in the doctoral program, which could be replaced by additional formal course work.

For students not having an MS degree who directly enter the PhD program (BS to PhD), there will be a minimum of 45 hours formal course work (i.e., 30 credit hours identical to the course work for a nonthesis MS in any of the Civil Engineering focus areas plus a minimum of 15 credit hours course work past the MS). In addition, these students can

enroll for Doctoral Research credit hours during or after their first semester in the program. The 27 credit hours required in addition to the 45 credit hours course work will be 18 credit hours in Dissertation Research, and a maximum of 9 credit hours in Doctoral Research. Up to 9 credit hours of Doctoral Research can be replaced by additional formal course work subject to the approval of the PhD adviser and the advisory committee.

For both MS to PhD and BS to PhD students, the program of study must be developed with an advisory committee and meet with departmental approval at the beginning of the PhD program, at which time transfer credit will be evaluated on a course-by-course basis.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree 42 Credit Hours Minimum beyond the Master's Degree

Elective Courses: 54 Credit Hours Minimum

- To be approved by a faculty adviser and the graduate coordinator.
- At least 27 credit hours of formal course work is required, exclusive of research and independent study. For students entering the program with a completed master's degree, at least 15 of the 27 credit hours (exclusive of independent study and research) must be taken at UCF after the master's program from approved formal courses. For students entering the program without a master's degree in Civil Engineering or a closely related discipline, at least 45 credit hours of formal course work are required.
- Doctoral Research (XXX 7919) - 9 credit hours maximum (more than 9 research credit hours can be taken, but only a maximum of 9 credit hours will be counted toward the program of study).
- Independent Study (XXX 6908) - 3 credit hours maximum
- No more than a total of 12 credit hours of doctoral research plus independent study will be included in a program of study.
- Directed Research (XXX 6918) is not permitted in a PhD program of study.

Students can choose among the following courses with the consent of the academic adviser. Students that have no MS degree should complete the core courses for the MS degree in the respective focus area. These focus areas are: Structural and Geotechnical Engineering, Transportation Systems Engineering, Water Resources Engineering, and Smart Cities. For each one of these areas there is a suggested list of core courses.

Suggested elective courses include:

Geotechnical Engineering

- CEG 5405 - Seepage in Soils **3 Credit Hours**
- CEG 6065 - Soil Dynamics **3 Credit Hours**
- CEG 6115 - Foundation Engineering **3 Credit Hours**
- CEG 6317 - Advanced Geotechnical Engineering **3 Credit Hours**
- CEG 6515 - Retaining Structures and Slope Stability **3 Credit Hours**
- CEG 6610 - Smart Underground Structures: Tunnels and Shafts **3 Credit Hours**
- CES 6170 - Boundary Element Methods in Civil Engineering **3 Credit Hours**
- CGN 5506 - Advanced Pavement and Civil Engineering Materials **3 Credit Hours**
- TTE 5835 - Pavement Engineering **3 Credit Hours**

Structural Engineering

- CES 5144 - Matrix Methods for Structural Analysis **3 Credit Hours**
- CES 5325 - Bridge Engineering **3 Credit Hours**
- CES 5606 - Advanced Steel Structures **3 Credit Hours**

- CES 5706 - Advanced Reinforced Concrete **3 Credit Hours**
- CES 5821 - Masonry and Timber Design **3 Credit Hours**
- CES 6010 - Structural Reliability **3 Credit Hours**
- CES 6116 - Finite Element Structural Analysis **3 Credit Hours**
- CES 6209 - Dynamics of Structures **3 Credit Hours**
- CES 6220 - Wind and Earthquake Engineering **3 Credit Hours**
- CES 6230 - Advanced Structural Mechanics **3 Credit Hours**
- CES 6527 - Nonlinear Structural Analysis **3 Credit Hours**
- CES 6715 - Prestressed Concrete Structures **3 Credit Hours**

Transportation Systems Engineering

- CGN 6655 - Regional Planning, Design, and Development **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- STA 5206 - Statistical Analysis **3 Credit Hours** or
- TTE 5204 - Traffic Engineering **3 Credit Hours**
- TTE 5805 - Geometric Design of Transportation Systems **3 Credit Hours**
- TTE 5835 - Pavement Engineering **3 Credit Hours**
- TTE 6205 - Highway Capacity **3 Credit Hours**
- TTE 6256 - Traffic Operations **3 Credit Hours**
- TTE 6270 - Intelligent Transportation Systems **3 Credit Hours**
- TTE 6275 - Connected and Autonomous Vehicles **3 Credit Hours**
- TTE 6315 - Traffic Safety Analysis **3 Credit Hours**
- TTE 6526 - Planning and Design of Airports **3 Credit Hours**
- TTE 6625 - Mass Transportation Systems **3 Credit Hours**
- TTE 6667 - Discrete Choice Modeling in Transportation **3 Credit Hours**

Water Resources Engineering

- CWR 5125 - Groundwater Hydrology **3 Credit Hours**
- CWR 5205 - Hydraulic Engineering **3 Credit Hours**
- CWR 5515 - Numerical Methods in Civil and Environmental Engineering **3 Credit Hours**
- CWR 5545 - Water Resources Engineering **3 Credit Hours**
- CWR 5634 - Water Resources in a Changing Environment **3 Credit Hours**
- CWR 5935 - Water First Seminar Series **0 Credit Hours**
- CWR 5999 - Coastal Systems Analysis **3 Credit Hours**
- CWR 6007 - Ecohydraulics **3 Credit Hours**
- CWR 6102 - Advanced Hydrology **3 Credit Hours**
- CWR 6126 - Groundwater Modeling **3 Credit Hours**
- CWR 6235 - Open Channel Hydraulics **3 Credit Hours**
- CWR 6236 - River Engineering and Sediment Transport **3 Credit Hours**
- CWR 6535 - Modeling Water Resources Systems **3 Credit Hours**
- CWR 6539 - Finite Elements in Surface Water Modeling **3 Credit Hours**
- CWR 6606 - Stochastic River Network Hydro-Geomorphology **3 Credit Hours**
- CWR 6660 - Water Policy, Planning and Governance **3 Credit Hours**

Construction Engineering and Management

Students are also allowed to take courses from other specialization areas. Students can take courses from Civil Engineering or Environmental Engineering and other departments, including but not limited to Statistics, Mathematics, and Industrial, Mechanical, and/or Electrical Engineering, and Computer Science, with the consent of the academic adviser.

- CCE 5006 - Infrastructure Systems Management **3 Credit Hours**
- CCE 5205 - Decision Support for Infrastructure Projects **3 Credit Hours**
- CCE 5220 - Sustainable Infrastructure Systems **3 Credit Hours**
- CCE 6036 - Advanced Construction Planning and Control **3 Credit Hours** *
- CCE 6045 - Cost Analysis of Sustainable Infrastructure Systems **3 Credit Hours**
- CCE 6211 - Design and Monitoring of Construction Processes **3 Credit Hours** *
- CCE 6817 - Dynamics of Sustainable Systems **3 Credit Hours**

Smart Cities

- CCE 5220 - Sustainable Infrastructure Systems **3 Credit Hours**
- CEG 6610 - Smart Underground Structures: Tunnels and Shafts **3 Credit Hours**
- CES 6876 - Smart City Built Infrastructure **3 Credit Hours**
- CGN 5340 - Internet of Things: Applications in Smart Cities **3 Credit Hours**
- CGN 5341 - Interdisciplinary Introduction to Smart Cities' Applications **3 Credit Hours**
- CGN 5617 - Infrastructure Systems Optimization and Identification **3 Credit Hours**
- CGN 6342 - Modeling Human Behavior with Emerging Data **3 Credit Hours**
- CGN 6343 - Cyber-Physical Systems and Smart Cities **3 Credit Hours**
- ENV 6128 - Smart Air Quality Monitoring and Air Pollution Control **3 Credit Hours**
- ENV 6533 - Smart Water and Wastewater Management **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- TTE 5531 - Active Mobility and Technologies: Synergy and Challenges **3 Credit Hours**
- TTE 5532 - Policy Aspects of Smart City Transportation **3 Credit Hours**
- TTE 6275 - Connected and Autonomous Vehicles **3 Credit Hours**
- TTE 6533 - Mobility in Smart Cities: Technologies and Application Areas **3 Credit Hours**
- TTE 6608 - Algorithms and Models for Smart Cities **3 Credit Hours**

Dissertation: 18 Credit Hours

- XXX 7980 (where XXX can be CGN, CCE, CEG, CES, CWR, or TTE; 18 credit hours)

Examinations

The student must pass three examinations.

Qualifying Examination

The first is the PhD Qualifying Examination in one of the departmental disciplines. This written examination must be taken within the first year of admission into the PhD program. It may be attempted no more than twice.

Candidacy Examination

The student must pass a Candidacy Examination, normally taken near the end of the course work. It consists of a written and oral presentation of a research proposal, and may include additional written or oral questioning by the committee. A copy of the written examination will be kept as part of the student's official record.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence that items have been completed must be received by the College of Graduate Studies on the Friday before the first day of classes for those who wish to enroll in dissertation hours in that semester:

- Completion of all but 6 hours or less of course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Dissertation Defense Examination

The Dissertation Defense Examination is an oral examination taken as defense of the written dissertation.

The College of Engineering and Computer Science requires that all dissertation defense announcements be approved by the student's adviser and posted on the college's website and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.

Equipment Fee

Students in the Civil Engineering PhD program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Master's or bachelor's degree in Civil Engineering or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

Application Deadlines

Civil Engineering PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Andrew Randall PhD PE

Professor
 andrew.randall@ucf.edu
 Telephone: 407-823-6429
 Engineering II, 211-L

Ana Lucia Salas

Graduate Student Services Coordinator
 AnaLucia.Salas@ucf.edu
 Telephone: 407-823-1299
 Engineering II, 211-K

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Clinical Psychology PhD

College: Sciences	Degree: PhD
Department: Psychology	Option: Dissertation
Program Websites: http://psychology.cos.ucf.edu/graduate/ph-d-clinical/	

Program Description

The Psychology Department offers a PhD in Clinical Psychology, educating students in both the science and the practice of clinical psychology.

The Clinical Psychology track in the Psychology PhD Program emphasizes the scientist-practitioner model of training as promulgated by the American Psychological Association (APA). The doctoral program in Clinical Psychology is accredited by the American Psychological Association.

The PhD Program in Clinical Psychology at the University of Central Florida educates graduate students "to generate and integrate scientific and professional knowledge, attitudes, and skills to further psychological science, professional practice, and human welfare. Graduates are capable of functioning as a scientist and a practitioner and may function as either or both, consistent with the highest standards in psychology" (National Conference on the Education and Training of Scientist-Practitioners for the Professional Practice of Psychology, 1990). Our PhD program aspires to achieve excellence in research and clinical training and to contribute to and perpetuate science and practice in the field of Clinical Psychology through faculty and graduate student involvement in scholarly and professional activities.

Consistent with the mission of a major metropolitan university, the Clinical Psychology PhD program at UCF takes advantage of and builds upon community partnerships. Our partnerships with public and private health service delivery resources in the Central Florida area provides externship training sites and research opportunities.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-COS-Clinical-Psychology-PhD.pdf>.

Curriculum

The Clinical Psychology track in the Psychology PhD Program is designed to be a full-time program, with some summer enrollment expected. There is a total of 84 semester hours of courses, practica, and research requirements.

Total Credit Hours Required: 84 Credit Hours Minimum beyond the Bachelor's Degree. 54 Credit Hours Minimum beyond the Master's Degree.

In addition to the 84 semester hours, graduate students engage in a variety of clinical training experiences that occur in health and mental health facilities throughout greater Orlando. Courses are presented in sequential fashion and students entering with a Bachelor's degree must earn a Master's degree in route to the PhD. Students who enter with a Master's degree must complete at least 54 semester hours at UCF. A Dissertation that represents a significant scientific contribution to the discipline is required. Successful completion of the Qualifying and Comprehensive Examination is required to be admitted into candidacy and prior to initiation of Dissertation research.

Required Courses—69 Credit Hours (Plus 15 Dissertation Credit Hours Listed Below)

Psychology Foundation Courses—12 Credit Hours

- DEP 5057 - Developmental Psychology **3 Credit Hours**
- SOP 5059 - Advanced Social Psychology **3 Credit Hours**

- PSB 6348 - The Neuroanatomical Basis of Psychological Function **3 Credit Hours**
- EXP 6506 - Human Cognition and Learning **3 Credit Hours**

Integrative Course-3 Credit Hours

- CLP 7939 - Affective Neuroscience **3 Credit Hours**

Research Courses—18 Credit Hours

- PSY 7217C - Advanced Research Methodology I **4 Credit Hours**
- PSY 7218C - Advanced Research Methodology II **4 Credit Hours**
- PSY 7219C - Advanced Research Methodology III **4 Credit Hours**
- PSY 6971 - Thesis **6 Credit Hours**

Clinical Courses—27 Credit Hours

- CLP 7447C - Clinical Psychological Assessment **3 Credit Hours**
- CLP 7145C - Introduction to Clinical Psychology and Psychotherapy **2 Credit Hours** (2 credit hours; taken two times at 2 credit hours each time)
- CLP 7125 - Lifespan Psychopathology **3 Credit Hours**
- CLP 7623 - Ethical and Professional Issues in Clinical Psychology **3 Credit Hours**
- CLP 7494 - Empirically Supported Psychotherapies **3 Credit Hours**
- CLP 7943C - Clinical Practicum **VAR Credit Hours**
- CLP 6949 - Predoctoral Internship **1 Credit Hours** (1 credit hour; taken three times at 1 credit hour each time)
- CLP 7942L - Supervision Practicum **1 Credit Hours**

Elective—6-9 Credit Hours

- Any graduate-level course as approved by the program director

Dissertation—15 Credit Hours

- PSY 7980 - Doctoral Dissertation **15 Credit Hours**

Qualifying and Comprehensive Doctoral Examinations

Purpose—The purpose of the Qualifying and Comprehensive Examination is to develop and assess the competency of professional behaviors in doctoral-level graduate students in the Clinical Psychology PhD Program that are consistent with the program's professional training goals. These goals include but are not limited to the development and demonstration of skills and abilities that enable graduating students to (a) be expertly trained, empirically oriented clinicians capable of designing, implementing and assessing programs concerned with health service and mental health delivery broadly defined and (b) formulate research questions, design research studies, and write research proposals independently. The Clinical Qualifying Examination involves a demonstration of clinical skills while the Research Comprehensive Examination involves writing of a research proposal independently.

Requirements, Rationale, and Objectives—Successful completion of Qualifying and Comprehensive Examination requirements reflects the program's desire to ensure overall breadth of training in the field of Clinical Psychology. The two professional domains outlined above are consistent with this intent.

Admission to Candidacy

The following are required to be admitted to Candidacy and enroll in Dissertation hours:

- Completion of most course work, except for Dissertation hours and Supervision Practicum.
- Successful completion of the Qualifying and Comprehensive Examinations.
- The Dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

The American Psychological Association requires that graduate students be evaluated at least annually and provide written feedback to graduate students. Because Clinical Psychology involves the provision of mental health services to the public, special care must be taken to ensure that graduate students possess the requisite interpersonal sensitivity and skill. As a result, evaluation procedures within this track will focus not only on academic performance but also on: clinical proficiency; ethical and professional conduct; response to supervision; interpersonal behavior; and interpersonal functioning. The Clinical Psychology committee reserves the right to drop from the program graduate students who continue to exhibit serious difficulties in these behavioral domains and do not respond to feedback and efforts at remediation.

Master of Science in Clinical Psychology

Graduate students enrolled in the Clinical Psychology PhD Program earn a Master of Science in Clinical Psychology in route to their doctorate unless they are admitted with an acceptable Master's degree. This is a nonterminal Master's degree available only to students in the Clinical Psychology PhD program.

Independent Learning

As befits the nature of graduate training and the pursuit of a doctoral degree, graduate students in Clinical Psychology are expected to engage in independent learning throughout their graduate career. The completion of the Master's Thesis and the Doctoral Dissertation are two examples of independent learning in which all graduate students participate. In addition, depending upon their career goals, other experiences, such as directed readings or additional research projects, may be undertaken by graduate students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must have at least a Bachelor's degree with a major in Psychology or a Bachelor's degree and completion of undergraduate or graduate courses in statistics/research methods and six additional upper division courses in core content areas of Psychology (i.e., personality theory, abnormal psychology, learning, physiological psychology, clinical psychology, developmental psychology, social psychology). Applicants who enter with a Master's degree may be eligible to waive or transfer up to 30 credit hours for credits earned from a completed Master's degree from an accredited institution (as long as this number does not exceed 50% of the program's requirements). In these cases, each applicant's situation will be reviewed individually based on program standards and requirements.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- Official, competitive GRE scores taken within the last five years (use UCF Institution Code: 5233)
- Evidence of successful completion of undergraduate course work in statistics and general areas of Psychology.
- Curriculum Vitae.
- Three letters of recommendation, with at least two furnished by college or university professors who are acquainted with the applicant.
- A clear statement concerning the type of research the applicant wishes to pursue as a graduate student, and the Clinical Faculty member the applicant believes would be best suited to serve as the applicant's major professor and mentor.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Due to the competitive nature of the application process, strong candidates are likely to meet criteria that are more stringent than those listed here. Strong candidates are also likely to have both research and clinical experience. A department admissions committee reviews the applicants' credentials and may invite a group of candidates for an interview. Final selection is based on both submitted credentials and the interview.

In 2020, the Doctoral Program in Clinical Psychology received 230 applications for admission, and eight students were offered admission to the Ph.D. program. Accepted students had, on average, between 1.5 and 2 years prior research experience and were well matched with the Clinical Faculty's research and training interests.

Previous graduate work will be considered on a case-by-case basis (including acceptance of a previously completed Master's Thesis). Graduate students may be eligible to waive up to 30 credits earned from a completed Master's degree from an accredited institution. Each graduate student's situation is considered individually by the Clinical Faculty. Graduate students should submit a request to the Director of Clinical Training and provide a course catalog description, course syllabus, and other relevant information to enable the Clinical Faculty to make a determination of equivalence with a course in the PhD curriculum. The waived hours must come from graduate-level course work (e.g., numbered 5000 and above in the Florida SUS approach). No courses with grades less than "B" will be considered for waiver.

Admitted graduate students who did not complete an empirical Master's Thesis as part of their required training at another accredited institution must complete an empirical Master's Thesis, the Qualifying Examination, and Comprehensive Examination prior to forming a Dissertation committee. Graduate students who completed an empirical Master's Thesis at their former accredited institution may submit the Master's Thesis to the Director of Clinical Training, who will assign a Clinical Faculty committee to review the Master's Thesis and determine whether it meets the PhD program's standards for excellence. If the Master's Thesis completed at a previous institution is judged to meet the PhD program's standards, the graduate student must complete the Qualifying and Comprehensive Examinations prior to forming a Dissertation Committee. Graduate students must propose and successfully defend an approved Master's Thesis under the direction of Clinical Faculty if the Master's Thesis that they completed at a previous institution fails to meet the PhD program's standards.

Application Deadlines

Clinical Psychology PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Dec 1		

International Applicants	Dec 1	Dec 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kristi Alexander PhD

Professor

kristi.alexander@ucf.edu

Telephone: 407-823-1183

Kenneth Davis

Graduate Admissions Specialist

kenneth.davis@ucf.edu

Telephone: 407-823-2157

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Computer Engineering PhD

College: Engineering and Computer Science	Degree: PhD
Department: Electrical and Computer Engineering	Option: Dissertation
Program Websites: http://www.ece.ucf.edu/	
Graduate Program Handbook	

Program Description

The Computer Engineering PhD prepares students for careers in research or academia with a potential focus in computer systems and VLSI design, software engineering and algorithms, intelligent systems and Machine Learning, computer networks and computer security, as well as simulation systems.

The doctoral program in Computer Engineering is primarily intended for students with a master's degree in Computer Engineering or a closely related discipline wishing to pursue a career in research or academia. Specializations include computer systems and VLSI design, software engineering and algorithms, intelligent systems and Machine Learning, computer networks and computer security and simulation systems.

Research interests of the Computer Engineering faculty include computer architecture, software engineering, artificial intelligence, expert systems, modeling and simulation, computer networking and ubiquitous computing, computer security, and very large-scale integration (VLSI) systems.

The specific research that each one of the EECS faculty conduct can be found at the School of EECS website (www.eecs.ucf.edu).

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Computer-Engineering-PhD.pdf>.

Curriculum

The Computer Engineering PhD degree requires a minimum of 72 credit hours beyond the bachelor's degree. Of these 72 hours, a minimum of 36 credit hours must be formal coursework, exclusive of independent study coursework. A minimum of 15 credit hours with up to a maximum of 24 credit hours of dissertation hours can be credited toward the degree. No more than 12 credit hours of Independent Study are allowed. The remaining hours can be a combination of formal coursework and/or pre-candidacy doctoral research. Details about this program can be found in the Computer Engineering PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Formal coursework required is 36 credit hours, exclusive of independent study and research. A minimum of 15 credit hours of dissertation are required. All other credit hours will be determined with a faculty adviser. Students admitted with an earned master's degree may request to have up to 30 of those credit hours counted toward their doctoral program. The student's doctoral adviser in conjunction with the graduate office will determine the precise number of hours to be counted subject to Graduate Studies regulations.

The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog.

Articulation Courses

Undergraduate articulation courses are required to be completed prior to admission for students who do not hold a Bachelor of Science degree in Computer Engineering. In particular, the articulation courses specified below, plus all of the prerequisite string which any of them require, must be completed prior to admission. Grades of "B" or higher must be obtained in each articulation course specified below. Articulation courses are not eligible for inclusion on a graduate Program of Study.

- EEE 3342C Digital Systems
- EEL 3801 Computer Organization
- COP 3502 Computer Science I
- COP 3503 Computer Science II

In addition, choose one of the following:

- COP 4331 Processes for Object-Oriented Development
- EEL 4768C Computer Architecture
- EEL 4781 Computer Communications Networks

Required Courses: 36 Credit Hours

- Suggested courses listed below.

Elective Courses: 12-21 Credit Hours

- May include formal coursework, directed research hours, doctoral research hours, dissertation research, and no more than 12 credit hours of Independent Study.
- Suggested courses listed below.

Suggested Courses for Doctoral Program

The Computer Engineering Program supports a number of specialization areas. These specialization areas are (in alphabetical order): Computer Networks and Computer Security (CNCS), Computer Systems and Reconfigurable Hardware (CS/RH), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA). Please contact your graduate program assistant at 407-823-0378 for a list of faculty within each specialization area.

For each one of these areas there is a suggested list of courses stated below. Students are also allowed to take courses from other specialization areas, but the majority of their courses should be chosen from courses in their specialization area.

Computer Networks and Computer Security (CNCS)

- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 5110 - Parallel Architecture and Algorithms **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- CDA 6938 ST: Research in Computer and Network Security **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 5008 - Computer Communication Networks Architecture **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**
- CNT 6519 - Wireless Security and Forensics **3 Credit Hours**
- CNT 6707 - Advanced Computer Networks **3 Credit Hours**
- COP 5537 - Network Optimization **3 Credit Hours**
- COP 5611 - Operating Systems Design Principles **3 Credit Hours**
- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6135 - Malware and Software Vulnerability Analysis **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**
- EEL 5780 - Wireless Networks **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**
- EEL 6785 - Computer Network Design **3 Credit Hours**
- EEL 6788 - Advanced Topics in Computer Networks **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**

Computer Systems and Reconfigurable Hardware (CS/RH)

- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 5110 - Parallel Architecture and Algorithms **3 Credit Hours**
- CDA 6107 - Parallel Computer Architecture **3 Credit Hours**
- CDA 6938 Multi-Core Architecture and Programming **3 Credit Hours**

- COP 5537 - Network Optimization **3 Credit Hours**
- EEE 5390C - Full-Custom VLSI Design **3 Credit Hours**
- EEL 5722C - Field-Programmable Gate Array (FPGA) Design **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**
- ECM 6308 - Current Topics in Parallel Processing **3 Credit Hours**

Intelligent Systems and Machine Learning (ISML)

- CAP 5055 - AI for Game Programming **3 Credit Hours**
- CAP 5512 - Evolutionary Computation **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 5636 - Advanced Artificial Intelligence **3 Credit Hours**
- CAP 6545 - Machine Learning Methods for Biomedical Data **3 Credit Hours**
- CAP 6616 - Neuroevolution and Generative and Developmental Systems **3 Credit Hours**
- CAP 6640 - Computer Understanding of Natural Language **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6675 - Complex Adaptive Systems **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EEL 6812 - Introduction to Neural Networks **3 Credit Hours**
- EEL 6875 - Autonomous Agents **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**

Software Systems and Algorithms (SSA)

- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**
- CAP 5510 - Bioinformatics **3 Credit Hours**
- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6545 - Machine Learning Methods for Biomedical Data **3 Credit Hours**
- CEN 5016 - Software Engineering **3 Credit Hours**
- CEN 6075 - Formal Specification of Software Systems **3 Credit Hours**
- COP 5021 - Program Analysis **3 Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems **3 Credit Hours**
- COP 6730 - Transaction Processing **3 Credit Hours**
- COP 6731 - Advanced Database Systems **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- COT 6410 - Computational Complexity **3 Credit Hours**
- COT 6417 - Algorithms on Strings and Sequences **3 Credit Hours**
- COT 5600 - Quantum Computing **3 Credit Hours**
- COT 6602 - Introduction to Quantum Information Theory **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**

Dissertation: 15-24 Credit Hours

- XXX 7980 Dissertation Research (15 credit hours minimum).
- The program will only allow students to complete up to 24 hours of dissertation coursework in XXX 7980.

The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website at least two weeks before the defense date.

Qualifying Review

The Qualifying Review relies on annual appraisals of the student's progress conducted by the student's research/academic adviser and advisory committee, once formed. The student's appraisal template that the adviser completes will assess the student's academic performance (course performance) and research performance. On an annual basis, and based on the completed PhD Student Annual Review template, as well as additional student documentation attached with approval of the adviser, the EECS Graduate Committee will rate the student's performance as "Above Expectation," "At Expectation," or "Below Expectation" toward the completion of the PhD degree.

Students must pass the Qualifying Review no later than the deadline, which is the semester in which they complete 24 credit hours after admission or within two calendar years after admission, whichever occurs later. If a student has passed the Qualifying Review, then the student is eligible to continue PhD studies. However, a student who does not pass the Qualifying Review by the deadline will be dismissed from the degree program and will be given the opportunity to complete a master's degree (if applicable).

Dissertation Committee

PhD dissertation committees for this degree program must have all of the below characteristics:

- consist of at least five committee members including the committee chair
- the committee chair must be either a Regular Appointment faculty member in EECS or a Secondary-Joint Appointment faculty member in EECS
- at least 50% of committee members (when tabulated including the chair) must be EECS regular faculty
- the majority of committee members must vote in favor of passing for the student to Pass
- in addition to the above, all college and university requirements (such as one member outside of EECS) must be met.

Joint faculty members may serve as committee chairs, but graduate faculty scholars may not serve as committee chairs.

Candidacy Examination

After passing the Qualifying Review, students are required to successfully complete the candidacy examination in order to demonstrate readiness for preliminary research in a chosen field of study. This exam is administered by the student's dissertation advisory committee. Preparedness for taking the candidacy examination requires that the student must demonstrate his/her readiness for the PhD program in Computer Engineering by authoring an accepted journal article or high-quality conference paper. The student must be the first author on this paper and the research advisor must also be an author on this paper to be used for Candidacy. The publication should reflect the work related to the student's PhD research. Candidacy is normally attempted at the completion of required coursework and must be passed before registering for doctoral dissertation hours (EEL 7980). Continuous enrollment in at least 3 hours of doctoral dissertation hours is required once a student starts taking dissertation credits.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours.

- Completion of all required formal coursework, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Signed and well-formed Doctoral Committee Candidacy Status form and associated paperwork must be submitted to the Electrical and Computer Engineering Graduate Office for processing on or before **the last day to defend Dissertation during the semester prior to enrolling in dissertation credits.**

Dissertation Proposal Exam

After passing the candidacy examination, the student will write a dissertation proposal and present it to the dissertation advisory committee for approval. The proposal must include a description of the research performed to date and the research planned to be completed for the dissertation. The presentation of a written dissertation proposal must be deemed as passing requirements by the majority of the dissertation committee.

Equipment Fee

Students in the Computer Engineering PhD program pay a \$28 equipment fee each semester that they are enrolled. Part-time students pay \$14 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Master's or bachelor's degree in Computer Engineering or a closely related discipline.
- Résumé
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Application Deadlines

Computer Engineering PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kalpathy Sundaram PhD
 Professor
 eecpe-grad@eecs.ucf.edu
 Telephone: 407-823-5326
 HEC 439B

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Computer Science PhD

College: Engineering and Computer Science	Degree: PhD
Department: Computer Science	Option: Dissertation
Program Websites: http://www.cs.ucf.edu/	
Graduate Program Handbook	

Program Description

The Computer Science PhD program prepares students in the highest level of theory and practice of Computer Science, aiding with the development of research and instruction skills for positions in academia, industry and government sectors.

The Computer Science PhD program produces professionals trained at the highest possible academic level in the theory and practice of Computer Science in order to meet current and projected market demands for Computer Science

experts. Students graduate with proven abilities in research and instruction and have expertise suitable for positions in industry, academia and government.

Students in the program receive a broad background in the areas of programming systems and languages, computer architecture and computer science theory while specializing in a research area. Research interests of the computer science faculty include affective computing, applied perception, bioinformatics, computational biology, computational geometry, computer and network security, computer architecture, computer forensics, computer graphics, computer networks, computer vision, cryptography, data compression, database management systems, data mining, design and analysis of algorithms, evolutionary computation, genetic algorithms, graph theory, hardware/software co-design, image processing, machine learning, mixed and virtual reality, mobile computing, modeling and simulation, multimedia systems, natural language processing, neural networks, parallel and distributed processing, performance evaluation, programming languages, quantum computing, semantic web, software agents, software engineering and VLSI systems.

Curriculum

The Computer Science PhD program requires a minimum of 72 credit hours beyond the bachelor's degree. A plan of study for each student must be filed within the first two weeks of the student's second semester in the program. Details about this program can be found in the Computer Science PhD Handbook.

This plan must satisfy the following:

- A minimum of 72 credit hours (including CDA 5106, COT 5405, and COT 6410 - all with a grade of "B" (3.0) or better). At most 30 credit hours can be waived from a completed MS program, exclusive of thesis, independent study, dissertation, and research. Otherwise, at most 9 external credits can be transferred.
- A 3.0 or better grade point average is required. At most 6 credit hours with "C" (2.0) are allowed.
- No courses below the 5000-level, with no 5000-level CGS prefix coursework.
- No more than 12 credit hours of independent study (6908).
- Five 6000- or 7000-level courses (15 credits) with grades of "B" (3.0) or better taught by EECS faculty. None of these may be independent study or dissertation for which letter grades (not S/U) are assigned.
- Six additional computer science graduate credits to make the total of all non-independent study (e.g., formal coursework exclusive of independent study) of at least 36 credits.
- A minimum of 15 credit hours and a maximum of 24 credit hours of PhD dissertation (CAP, CDA, CEN, CIS, CNT, COP or COT 7980).

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites—12 Credit Hours

An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in the following upper-division undergraduate courses:

- EEL 4768C Computer Architecture **3 Credit Hours**
- COP 4020 Programming Languages I **3 Credit Hours**
- COP 4600 Operating System **3 Credit Hours**
- COT 4210 Discrete Computational Structures **3 Credit Hours**

Required Courses—9 Credit Hours

- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**

- Students must earn a B or better in CDA 5106, COT 5405, and COT 6410. Students earning a B- or below in this course work, will have to repeat the course work until they earn a B or better.
- **COT 5405 - Design and Analysis of Algorithms 3 Credit Hours**
Students must earn a B or better in CDA 5106, COT 5405, and COT 6410. Students earning a B- or below in this course work, will have to repeat the course work until they earn a B or better.
 - **COT 6410 - Computational Complexity 3 Credit Hours**
Students must earn a B or better in CDA 5106, COT 5405, and COT 6410. Students earning a B- or below in this course work, will have to repeat the course work until they earn a B or better.

Elective Courses—48 Credit Hours

- Grades must be a "C" (2.0) or better with at most 6 credit hours having grades below "B" (3.0) and an overall grade point average of 3.0 or better.
- No courses below the 5000-level, with no 5000-level CGS prefix course work.
- No more than 12 credit hours of independent study (6908).
- Five 6000- or 7000-level courses (15 credits) with grades of "B" (3.0) or better taught by EECS faculty. None of these may be independent study or dissertation for which letter grades (not S/U) are assigned. At least 36 hours must be formal course work, exclusive of independent study or doctoral research.

Dissertation—15 Credit Hours

- XXX 7980 (15 credit hours minimum)

Qualifying Review

The Qualifying Review (QR) will be offered twice a year the in Fall and the Spring semester. A student enrolled in the PhD program is required to take the QR in the third semester (excluding the Summer semesters). The Graduate Committee will meet twice a year to evaluate the results. To pass QR a student should have at least one publication with the adviser and should have passed two core classes, or passed one and be enrolled in a second one. A second QR attempt should be not later than the fifth semester; at that time the student should have passed the three core courses.

Dissertation Committee

The Dean, through the Chairs and Directors, is responsible for committee formation, additions and deletions. The doctoral committee must consist of a minimum of four members; three must be graduate faculty members from within EECS and one must be at large from outside the EECS faculty. Joint faculty members may serve as school-faculty committee members. The Computer Science Graduate Committee may specify additional membership. The College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee, or appoint a co-adviser.

Joint faculty members may serve as committee chairs, but graduate faculty scholars may not, although they may serve as co-chairs.

All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the advisory committee.

Candidacy Examination

After passing qualifiers, students are required to successfully complete the candidacy examination to demonstrate readiness for preliminary research in a chosen field of study. This exam requires the acceptance of a professional paper by a peer-reviewed conference or journal that is deemed acceptable to the student's advisory committee as a major contribution to student's area of research. Candidacy is normally taken near the completion of required course work and must be passed before registering for doctoral dissertation hours (XXX 7980). Continuous enrollment in at least 3 hours of doctoral dissertation hours is required once a student starts taking 7980 credits. The candidacy status change form and any associated paperwork (advisory committee form, program of study, etc.) must be submitted for processing by the last day of classes of the semester prior to enrolling in dissertation credits. In order to start taking dissertation hours you must be within 57 credit hours.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence of successful completion of these requirements must be received in the College of Graduate Studies by the day before the first day of classes in which the student wishes to enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Time Limitation

Students have seven years from the beginning of regular graduate status in the PhD program to complete all requirements for the degree, although most students finish within 4 to 5 years.

Dissertation Proposal

After passing the candidacy examination, the student will write a dissertation proposal and present it orally to the dissertation advisory committee for approval. The proposal must include a description of the research performed to date and research plans.

Dissertation and Oral Defense

Students must write a dissertation on their research that describes a significant original contribution to the field of computer science. The oral defense of the dissertation is reviewed by the research committee. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website and the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date. The dissertation must be approved by the dissertation adviser and committee, the school director or designee and the dean of the college or designee. Format approval from the Thesis and Dissertation Editor and final approval of satisfaction of degree requirements by the College of Graduate Studies is required.

Equipment Fee

Students in the Computer Science PhD program pay a \$34 equipment fee each semester that they are enrolled. Part-time students pay \$17 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Outstanding students with a bachelor's degree are encouraged to apply directly to the doctoral program. Admission to the PhD program is formalized by the university upon the recommendation of the Computer Science Graduate Coordinator.

An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in upper-division undergraduate courses listed under the Articulation Section of the Curriculum Information. Applicants may choose to demonstrate their knowledge of these courses by taking these courses as non-degree seeking and scoring "B" or better in all of them.

Application Deadlines

Computer Science PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
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*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Liquang Wang PhD

Associate Professor

lwang@cs.ucf.edu

Telephone: 407-823-3187

HEC 437E

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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Grad Fellowships

Telephone: 407-823-0127

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Criminal Justice PhD

College: Community Innovation and Education	Degree: PhD
Department: Criminal Justice	Option: Dissertation
Program Website: https://ccie.ucf.edu/criminaljustice/	
Graduate Program Handbook	

Program Description

The Doctoral Program in Criminal Justice is a post-master's program of study and research. The program is composed of a substantive core focused on criminal justice theory and institutions, a research methods core that prepares social scientists in the scientific method and social-science statistics, and a selection of substantive criminal justice concentrations (policing, corrections, and juvenile justice).

The program focuses on criminal justice and takes advantage of the city of Orlando and surrounding cities and counties to examine criminal justice issues from multiple angles and levels.

The program is intended to serve many purposes. Chief among them are:

- Prepare disciplinary stewards capable of advancing scholarship in criminal justice;
- Prepare a qualified workforce to assume criminal justice instructional responsibilities in postsecondary institutions;
- Prepare analysts competent to staff federal, state, and local criminal justice agencies; and
- Improve safety and justice in communities through research partnerships with neighborhood, city, county and state agencies and associations.

Students completing the program will be well prepared to pursue academic positions in universities, research positions in criminal justice agencies, and consultancies in program evaluation and needs assessment.

Curriculum

The Doctoral Program in Criminal Justice is a 57-credit-hour, post-master's program of study and research. Substantive emphasis is placed on core coursework in criminal justice theory and institutions, and on in-depth concentrations in policing, corrections or juvenile justice. Students complete a minimum of 42 credit hours of doctoral coursework and 15 credit hours of dissertation research.

Total Credit Hours Required: 57 Credit Hours Minimum beyond the Master's Degree

Prerequisites

Applicants are expected to have a master's degree in criminal justice or a closely related discipline. Applicants' transcripts will be reviewed for successful completion of a sufficient number of fundamental criminal justice classes. Applicants may be required to complete master's-level courses in certain topics before being admitted to the program or permitted to take classes.

Students must have completed master's-level courses in advanced research methods and advanced quantitative methods and be familiar with SPSS, SAS, STATA, or R prior to enrolling in the Methodological Core courses. Students who do not meet this requirement may be required to complete remedial coursework prior to enrolling in CCJ 7708 - Advanced Quantitative Methods for Criminal Justice Research and CCJ 7727 - Advanced Research Methods in Criminal Justice. It is recommended students have completed master's level courses in the concentration area they choose prior to taking courses in that area (policing, corrections, or juvenile justice).

Required Courses: 36 Credit Hours

Substantive Core: 15 Credit Hours

A grade of B (3.0) or better is required for all courses listed in the Substantive Core.

- CCJ 7019 - Seminar in the Nature of Crime **3 Credit Hours**
- CCJ 7457 - Seminar in Criminal Justice Theory **3 Credit Hours**
- CCJ 7096 - Seminar in Criminal Justice Systems **3 Credit Hours**
- CCJ 7785 - Teaching Criminal Justice **3 Credit Hours**
- CCJ 7775 - Criminal Justice Research in the Community **3 Credit Hours**

Methodological Core: 12 Credit Hours

A grade of B (3.0) or better is required for all courses listed in the Methodological Core.

- CCJ 7727 - Advanced Research Methods in Criminal Justice **3 Credit Hours**
- CCJ 7708 - Advanced Quantitative Methods for Criminal Justice Research **3 Credit Hours**

Select two courses:

Select two courses from the list below or another methodological course with adviser approval:

- CCJ 7725 - The Geography of Crime: Theory and Methods **3 Credit Hours**
- Students selecting this option must complete
- CCJ 6073 - Data Management Systems for Crime Analysis **3 Credit Hours**
- CCJ 6079 - Crime Mapping and Analysis in Criminal Justice **3 Credit Hours**
- CCJ 7747 - Hierarchical Linear Modeling in Criminal Justice Research **3 Credit Hours**
- CCJ 7752 - Structural Equation Modeling in Criminal Justice Research **3 Credit Hours**
- CCJ 6902 - Qualitative Criminal Justice Research Methods **3 Credit Hours**

Concentration Area: 9 Credit Hours

Students select an area of concentration and complete the assigned 9 credit hours of coursework. It is recommended entering doctoral students have completed a master's-level precursor in their chosen area (e.g., master's-level survey

course in policing if the area chosen is Policing Theory and Research). A grade of B (3.0) or better is required for all courses listed in the selected concentration area. Areas of concentration are:

Policing Theory and Research

- CJE 6320 - Seminar in Police Administration **3 Credit Hours**
- CJE 6456 - Seminar in Policing Urban Communities **3 Credit Hours**
- CJE 6706 - Seminar in Police Socialization and Culture **3 Credit Hours**

Correctional Theory and Research

- CJC 6135 - Seminar in Institutional Corrections **3 Credit Hours**
- CJC 6165 - Seminar in Community Corrections **3 Credit Hours**
- CJC 6486 - Seminar in Correctional Effectiveness **3 Credit Hours**

Juvenile Justice Theory and Research

- CJJ 6124 - Seminar in Prosecuting Juvenile Offenders **3 Credit Hours**
- CJJ 6126 - Seminar in Juvenile Corrections **3 Credit Hours**
- CJJ 6546 - Seminar in Policing and Prevention in the Juvenile Justice System **3 Credit Hours**

Elective Courses: 6 Credit Hours

Students select two additional courses (3 credit hours each) in consultation with program adviser and mentor.

Examinations

Students must successfully complete a series of cumulative examinations to ensure expertise in the substantive, methodological and concentration areas. Students will take an exam on the core criminal justice coursework, a research methods and statistics proficiency exam, and an exam in the student's concentration area. Students may enroll in doctoral research (CCJ 7919) during the period of study preceding the examinations if all coursework is complete. Students will be given two attempts at each exam. If unsuccessful on the second attempt the student will be dismissed from the program.

Dissertation: 15 Credit Hours

Upon successful completion of all examinations, students will enter candidacy and complete a dissertation. The dissertation topic should be grounded in the student's selected concentration area. Dissertation committees will contain a minimum of four faculty members, at least three of which (including the chair) will be from the Department of Criminal Justice. The fourth member must be from outside the Department of Criminal Justice and may be from outside the university. All dissertation committee members must be approved graduate faculty or graduate faculty scholars.

- CCJ 7980 **15 Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- An earned Master's degree in criminal justice or a closely related discipline from an accredited institution.
- Official, competitive GRE score taken within the last five years.
- Three letters of reference from faculty or professionals who can assess the student's ability to succeed in a doctoral program. A minimum of two letters must be from university faculty members, at least one of which must be written by a faculty member from the institution/program from which the Master's degree was earned, preferably a thesis advisor or close mentor who has the capacity to directly assess the applicant's potential for PhD-level work
- A personal narrative of 500 - 1,000 words describing research interests, educational expectations, career aspirations, level of computer skills, and any special qualifications that may enhance the overall learning environment of the CJ PhD program.
- A curriculum vita.
- A writing sample that is at least 2,000 words long, is academic in nature (e.g., paper written for a Master's class), and demonstrates the applicant's ability to complete graduate-level composition. Should not be an article accepted for publication and applicant must be sole author.

Applicants may be requested to participate in an interview (in person, by Skype, or by phone) with the Department's Doctoral Program Committee.

Admission to the Criminal Justice doctoral program will be granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match to the program, ability to enhance program strength and diversity, and potential for completing the degree and making significant contributions to criminal justice.

Application Deadlines

All application materials must be submitted by the appropriate deadline listed below.

Criminal Justice PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Eugene Paoline, III PhD

Professor

Eugene.Paoline@ucf.edu

Telephone: 407-823-2603

HPA 1, RM 321

Elaxis Ritz

elaxis.ritz@ucf.edu

Telephone: 407-823-6093

HPA 311

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships**Grad Fellowships**

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Curriculum and Instruction EdD

College: Community Innovation and Education	Degree: EdD
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	
Graduate Program Handbook	

Program Description

The Curriculum and Instruction EdD program is intended for individuals engaged in the practice of education in a various settings, including schools, colleges, universities, businesses and industry. The program prepares students for engaging in the study of practice-based problems in education and data-driven decision-making to generate real-world solutions.

The Curriculum and Instruction EdD program is designed for experienced practicing educators and practitioners who wish to gain advanced skills in:

1. Evaluating the effectiveness of educational and clinical programs and identifying impediments to effective practice and program improvement;
2. Analyzing and synthesizing educational and clinical research and scholarship to identify research-based practices and solutions to complex problems of the practice;
3. Leading the change process through the implementation of data and evidence-based decisions and solutions.

The Doctor of Education program culminates with the Dissertation in Practice.

Curriculum

The Doctor of Education (EdD) program is a professional practice doctorate. It is problem-based and designed for practitioners who aspire to positions of influence through their engagement in the development of others. The program builds that expertise from a core of courses in learning, development, and motivation; data, accountability, and leadership; organizational contexts and the use of research to drive decision-making. Students will work with a team of faculty and field advisers who will support their specialization area.

This program is intended for professionals interested in teaching in a college, university, or community college, or leading instructional, training, and/or program improvement in a school or school district, higher education organization, social service agencies, military, or industry settings.

The EdD in Curriculum and Instruction consists of three distinct program areas, all with an emphasis on professional practice: core, specialization, and dissertation. Three milestones assess students' progress through the program.

Total Credit Hours Required: 57 Credit Hours Minimum beyond the Master's Degree

Required Courses—57 Credit Hours

Core—18 Credit Hours

The Core courses include courses on learning theory, organizational theory, and research courses designed to teach students how to identify, analyze and evaluate complex problems of practice.

- EDP 7517 - Facilitating Learning, Development and Motivation **3 Credit Hours**
- EDF 7457 - Data, Assessment, and Accountability **3 Credit Hours**
- EDA 7101 - Organizational Theory in Education **3 Credit Hours**
- EDF 7494 - Identifying Complex Problems of Practice **3 Credit Hours**
- EDF 7478 - Analysis of Data for Complex Problems of Practice **3 Credit Hours**
- EDG 7985 - Proposing and Implementing Data-Driven Decisions **3 Credit Hours**

Area of Specialization(s)—15-18 Credit Hours

The area of specialization is comprised of 12 to 15 credit hours of specialization courses and 3 credit hours of a *Laboratory of Practice*.

Students must select an area of specialization before being admitted to the program. Each specialization area has its own advisor, so that students have someone to guide their doctoral studies. The specialization courses are designed to enhance the student's professional practice by extending the knowledge base earned through the master's degree and work experience. Specialization areas are subject to the discretion of the College based on course and faculty availability. Applicants are advised to review the various specializations offered on the CIEDD website (<https://ccie.ucf.edu/lser/curriculum-and-instruction/edd/>).

Students must complete a 3-credit-hour Laboratory of Practice experience. The Laboratory of Practice is a field-based experience where students begin the research process. This is not a "work for credit" experience; instead, it places the student in a professional setting to gain practical leadership and research experience.

- EDG 7947 - Laboratory of Practice (3 credit hours; may be repeated for a total of 6 credit hours)

Examples of concentration areas are provided below; however, these are **only examples** and do not represent specific requirements. Students should be aware that not every specialization course is offered every semester and concessions will need to be considered based on the availability of coursework, faculty, course prerequisites, and other institutional factors.

Example I: Curriculum and Instruction

The Curriculum and Instruction option provides students with a broad understanding of the factors affecting education and approaches to addressing systemic problems. For example, a student interested in curriculum design and development and contemporary instructional practice may select the following specialization to include:

- EDG 7692 Issues in Curriculum **3 Credit Hours**
- EDG 7221 - Advanced Curriculum Theory **3 Credit Hours**
- EDF 7232 Analysis of Learning Theories in Instruction **3 Credit Hours**
- EDG 7325 - Models of Teaching and Instructional Theory **3 Credit Hours**

Example II: Instructional Design and Technology

- EME 6055 - Current Trends in Instructional Technology **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6417 - Interactive Online and Virtual Teaching Environments **3 Credit Hours**
- EME 6458 - Virtual Teaching and the Digital Educator **3 Credit Hours**

Restricted Research Elective —3 Credit Hours

Upon completion of the core research continuum courses, students, with the guidance of their dissertation chairs, will select a fourth research course that will best support their dissertation research. Options include ONE of the following courses:

- EDG 6285 - Evaluation of School Programs **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**

Program Milestones

Program milestones are observable demonstrations of competency administered in place of comprehensive exams. Milestones are designed to monitor student progress and clear the student for continuation to the next program level. There are three program milestones, beginning in Year 2 of the program. Successful completion of all three is one of the requirements for candidacy.

To enter EDG 7987 - Dissertation in Practice, students must have an overall 3.0 GPA on all graduate work in the program, complete a mandatory 0 credit summer webcourse, successfully complete the three required program milestones.

Dissertation in Practice—18 Credit Hours

The dissertation in practice is the culmination of coursework and field experience related to complex problems of educational practice. The dissertation is the final demonstration of competency in the Curriculum and Instruction EdD. It is a rigorous academic project and is expected to demonstrate the skills and knowledge the student has acquired throughout the program as applied in an authentic professional environment. The dissertation is completed in partnership with the student, university faculty, and the student's mentor/client.

The dissertation in practice is presented in a thorough and comprehensive written report and must address a complex problem of educational practice. The dissertation in practice will be evaluated on the thoroughness, applicability and appropriateness of the work.

- EDG 7987 - Dissertation in Practice **VAR Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **Official transcript** - One official transcript (in a sealed envelope) from each college/university attended.
- **Master's degree in a closely related field.**
- **Graduate Record Examination scores and transcripts** - Official, competitive GRE score taken within the last five years.
- **The goal statement** - The goal statement is a critical element of your application materials to the EdD program. It should convey the applicant's intended Area of Specialization (see below), professional experience, and professional goals after completing the program. The admissions committee will review the goal statement to determine whether the EdD program is the right match for the applicant. In addition, as a sample of the applicant's writing ability, the goal statement should be clear and concise.
- **Area of Specialization** - The applicant will be asked to indicate a preferred Area of Specialization in the Goal Statement. Areas of Specialization may be found here. Applicants are required to meet or speak with the Specialization Area Advisor about their interests prior to applying. Please contact the Program Coordinator to discuss options for Areas of Specialization not included in our current program offerings.
- **Resume** - The applicant should include his/her most recent professional resume or curriculum vitae. The EdD in Curriculum and Instruction is a doctorate in the professional practice of education and, as such, emphasizes a minimum of three (3) years of experience in the field.
- **Three letters of reference** - Three letters of reference will be read by the admissions committee to determine whether the applicant has the academic ability to succeed in the program. As such, these letters should be written by graduate faculty who can judge the applicant's abilities in a doctoral program, including their research and writing skills. One of the letters may be from the applicant's employer/supervisor. This letter will support the applicant's professional experience and commitment to the program.
- **Interview** - The applicant should make an appointment to meet with the specialization area adviser before the final admission deadline. These appointments may be conducted in person or via remote conferencing. The interview is an important way for faculty to attach faces to names and draw distinctions among applicants. Students in the EdD in Curriculum and Instruction program will spend three full years working closely with faculty and colleagues in both individual and group settings. The interview allows faculty to meet potential students to form a cohesive and dynamic cohort.

Application Deadlines

Curriculum and Instruction EdD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	May 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Contact Info

Graduate Program

Michele Gill PhD

Professor

eddcriculum@ucf.edu

Telephone: 407-823-1771

ED 223J

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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ETS PPI: 5233

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Doctor of Medicine MD

College: Medicine	Degree: MD
Program Websites: https://med.ucf.edu/academics/md-program/	

Program Description

UCF's M.D. Program allows students to prepare for careers in every discipline of medicine and to focus on an individualized area of study or research. The M.D. Program learning experience is a unique and exciting blend of state-of-the-art technology, interactions with virtual patients, clinical and laboratory experiences, research, facilitator-directed small group sessions, and interactive didactic lectures. The UCF College of Medicine is fully accredited by LCME.

Program highlights include:

Clinical experiences are embedded throughout the first two years in P-1 and P-2 Community of Practice modules. At least twice a month, students will work with community preceptors in a variety of settings to practice skills and to apply the concepts mastered in the integrated basic science curriculum to real patients.

As part of approach described by the Dean as "Keep the Dream Alive!", each student will complete a focused inquiry and research project in the I-1 and I-2 modules. The scope of the project is limited only by the student's imagination and may include bench or clinical research as well as studies of quality of care, hospitality in medicine, quality of life, legal aspects of medicine, and more. Students will work with a mentor to develop a project or area of study that focuses on the student's unique interest and career plans.

Innovative simulation and animation experiences have been designed explicitly to integrate into and reinforce the curriculum. From basic science concepts to clinical diagnoses and treatment, the human patient mannequin simulators and online interactive virtual patients enhance and complement learning.

UCF offers these joint degrees:

MD/MBA, a joint medical and business degree program focusing on developing effective problem-solving and decision-making skills.

MD/MS in Hospitality and Tourism Management, a specialized degree program for individuals interested in enhancing their management skills through studying hospitality and service-oriented business models.

MD/PhD, a College of Medicine program that prepares clinician-scientists for a career in academic medicine to become leaders in the international academic medical community.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-COM-Medical-Doctor-MD.pdf>.

Curriculum

The four-year medical curriculum at UCF is designed to fully integrate basic science and clinical medicine, provide students with appreciation of cultural diversity and the need for sensitivity in treating patients, foster professionalism in all interactions, and ignite a passion for life-long learning.

The first two years of the curriculum are structured into modules, with the first year focusing on a fundamental understanding of how the various basic science disciplines relate to the normal human body. The second year takes an organ system-based approach and applies the basic knowledge of the first year to the study of clinical disease, pathological processes, and treatment. In concert with these aspects of medicine, the curriculum also covers psychosocial issues, cultural differences, communication skills, and physical diagnosis skills as they relate to the different topics in medicine.

The third and fourth years of the curriculum are devoted to clinical experience through clerkships, selectives, and electives. The clinical curriculum provides practical patient experiences complemented by basic science lectures, simulations, journal clubs, and conferences throughout the six core clerkships.

Throughout all four years of the M.D. program, Longitudinal Curricular Themes (LCT's) emphasize critical aspects of medicine and medical care that are not addressed in the basic core curriculum. The LCT's include Culture, Health & Society, Ethics and Humanities, Gender-Based Medicine, Geriatrics and Principles of Palliative Care, Interprofessional Education, Lifestyle Medicine, Medical Informatics and Patient Safety. Each of these themes will be highlighted when appropriate in the core curriculum and reinforced through a variety of interactive experiences.

Application Requirements

For information on applying to the MD Program, please see med.ucf.edu/admissions/ or contact the Office of Admissions at the UCF College of Medicine (Phone: 407.266.1350, Email: mdadmissions@ucf.edu).

Contact Info

Graduate Program

UCF College of Medicine Admissions
mdadmissions@ucf.edu
Telephone: 407-266-1350
Health Science Campus

Education PhD ♦♦

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation

Program Website: https://ccie.ucf.edu/education-phd/
Graduate Program Handbook

Program Description

The Education PhD program prepares students for careers in teaching positions in research universities. The program offers the following tracks: Counselor Education, Early Childhood Education, Elementary Education, Exceptional Education, Exercise Physiology, Higher Education, Instructional Design and Technology, Learning Sciences, Mathematics Education, Methodology, Measurement and Analysis, Reading Education, Science Education, Social Science Education, and TESOL.

The PhD in Education is a research-oriented degree appropriate for those who seek positions in the professoriate or in school districts, businesses, industry, educational agencies and other educational settings that require a strong research base.

It is the intent of this program to be interdisciplinary, allowing flexibility for students who will work in research clusters and learning communities with faculty on education-related research. Programs of study can be designed for those who seek faculty positions in a research university or research-oriented education positions in business and industry.

Program Tracks

- Education PhD, Counselor Education Track
- Education PhD, Early Childhood Track
- Education PhD, Elementary Education Track
- Education PhD, Exceptional Education Track
- Exercise Physiology, Education PhD
- Education PhD, Higher Education Track
- Education PhD, Instructional Design and Technology Track
- Education PhD, Learning Sciences Track ♦
- Education PhD, Mathematics Education Track
- Education PhD, Methodology, Measurement and Analysis Track
- Education PhD, Reading Education Track
- Education PhD, Science Education Track
- Education PhD, Social Science Education Track
- Education PhD, Teaching English to Speakers of Other Languages Track

Curriculum

The Education PhD requires a minimum of 54 credit hours beyond the master's degree; minimum credit hour requirements vary by track. Students from all tracks must complete 15 credit hours of core courses, 24 credit hours of dissertation, and 3 credit hours of an internship. Additional course requirements vary by track, including specialization and elective courses. All students must also complete the candidacy examination.

Total Credit Hours Required: 54-84 Credit Hours Minimum beyond the Master's Degree

This section describes the elements of the curriculum that are in common for all of the tracks. The internship requirement is common to most of the tracks but not all, and more detail is provided on the internship in each specialization section.

Required Courses

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**

Specialization and elective hours vary by track.

Internship: 3 Credit Hours

Specialization in all tracks must include a professional internship.

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation fulfills the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements. Interview attendance is required for admission consideration. The one exception to this requirement: students applying who live outside of the United States. A Skype interview will be offered to students living outside of the U.S. if they meet the qualifications for an interview invitation. Please note: a Skype interview will not provide the same in-depth interview experience given to those attending our all day event.

Application Deadlines

Education PhD	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Dec 20	Jan 15		
International Applicants	Dec 20	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Contact Info

Graduate Program

Graduate Affairs

cciegrad@ucf.edu

Telephone: 407-823-5369

ED 115

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

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Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Communication Sciences and Disorders Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Website:	

Track Description

This program is no longer accepting applications effective Summer 2017.

The Communication Sciences and Disorders track in the Education PhD program is designed specifically for those who wish to pursue careers as scholars, teachers and leaders in the area of school speech-language pathology with a content focus on language disorders and literacy.

The Communication Sciences and Disorders track in the Education PhD program is designed specifically for those who wish to pursue careers as scholars, teachers and leaders in the area of school speech-language pathology with a content focus on language disorders and literacy. The program prepares doctoral-level professionals to serve as university professors in academic or clinical course work and supervisors or directors of school programs at district, state or national levels. The emphasis is on developing expertise in conducting research to promote evidence-based practice and in collaborating with professionals from a variety of related disciplines.

Curriculum

The Communication Sciences and Disorders track in the Education PhD program requires a minimum of 81 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 18 credit hours of specialization courses, 9 credit hours of electives, and 24 credit hours of dissertation. In addition, the internship in this track requires 2 credit hours in university teaching, 2 credit hours in clinical supervision, and 2 credit hours of professional development. All students must complete the candidacy examination.

Total Credit Hours Required: 81 Credit Hours Minimum beyond the Master's Degree

Required Courses: 42 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 18 Credit Hours

- SPA 6843 - Severe Language-Based Reading and Writing Disabilities **3 Credit Hours**
- SPA 7490 - Advanced Studies in Language Disorders **3 Credit Hours**
- SPA 7494 - Doctoral Seminar 1: Spoken and Written Language Disorders Preschool and Early Elem **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
- IDS 7657 - Professional Collaboration Around Language Issues **3 Credit Hours**

Elective Courses: 9 Credit Hours

- Advanced course work in Reading **3 Credit Hours**
- Advanced course work in Exceptional Education **3 Credit Hours**
- Additional course work in Teaching English to Speakers of Other Languages **3 Credit Hours**

Dissertation: 24 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- Dissertation Research **24 Credit Hours** minimum

Internship: 6 Credit Hours

Specialization in all tracks must include a professional internship (minimum of 6 credit hours). In the Communication Sciences and Disorders Track, however, students must complete a three-part internship:

- University teaching **2 Credit Hours**
- Clinical supervision **2 Credit Hours**
- Professional development **2 Credit Hours**

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jane Lieberman PhD

Professor

Jane.Lieberman@ucf.edu

Telephone: 407-823-4790

HPA2 108

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
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Education PhD, Counselor Education Track

College: Community Innovation and Education	Degree: PhD
Department: Counselor Education and School Psychology	Option: Dissertation
Program Website: https://ccie.ucf.edu/cesp/counselored	
Graduate Program Handbook	

Track Description

The CACREP accredited Counselor Education track in the Education PhD program is designed specifically for those who wish to pursue careers as counselor educators at the university level or as supervisors in schools or agencies.

The program is fully accredited with the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). The Counselor Education PhD program offers courses and supervision that emphasize competence in research, teaching adult learners, counseling practice, supervision and leadership/advocacy. The UCF Community Counseling and Research Center serves as a hub for teaching and research in the program, includes facilities for group counseling and play therapy, and provides annual services to over 400 individuals, couples, and families in the central Florida community. The clinic also provides opportunities for doctoral students to practice their supervision skills. Our programs objectives are to centered on a primary goal, which is the education of outstanding counselor educators prepared to assume leadership roles in diverse settings.

Curriculum

The Counselor Education track in the Education PhD program requires a minimum of 69 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 21 credit hours of specialization courses, 15 credit hours of dissertation, and 9 credit hours of internship. All students must also complete the candidacy examination.

Total Credit Hours Required: 69 Credit Hours Minimum beyond the Master's Degree

Required Courses—48 Credit Hours

Core—24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours**
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**

Specialization—21 Credit Hours

- MHS 7406 - Advanced Theories in Counseling **3 Credit Hours**
- MHS 7801 - Advanced Practicum in Counselor Education **3 Credit Hours**
- MHS 7700 - Literature and Leadership in Counselor Education **3 Credit Hours**
- MHS 7311 - Scholarship and External Funding in Counselor Education **3 Credit Hours**
- MHS 7611 - Supervision in Counselor Education **3 Credit Hours**
- MHS 7730 - Research Seminar in Counselor Education **3 Credit Hours**
- MHS 7497 - Advanced Multiculturalism in Counseling **3 Credit Hours**

Required Internship—9 Credit Hours

- MHS 7840 - Internship in Counselor Education **3 Credit Hours** (repeatable)
- MHS 7808 - Internship in Counseling Supervision **3 Credit Hours**

Dissertation—15 Credit Hours minimum

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination (both written and oral).
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.
- Refer to the Counselor Education PhD Handbook for more information on the candidacy exams.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.

- A master's degree in a closely related field and master's level competency in educational research and statistics.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation from faculty and/or supervisors.
- Goal statement. See program handbook for more information
- Resumé or curriculum vitae.
- An interview is required. Please refer to the Counselor Education webpage to view the current scheduled interview date and times. Click admission > Dates and deadlines you will be able to view the updated interview date and location information.

Application Deadlines

Counselor Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Ann Shillingford PhD
 Associate Professor
 Dr-S@ucf.edu
 EDC 322 Q

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
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finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Early Childhood Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/teachered/early-childhood-education/	

Track Description

The Early Childhood track in the Education PhD program is designed to prepare highly competent doctoral-level professionals to assume leadership positions in teaching, research and service in the area of early childhood.

This track will prepare you with ways to apply your knowledge and skills to prepare you for your field.

Curriculum

The Early Childhood track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 15 credit hours of specialization courses, 6 credit hours of independent study, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Required Courses: 45 Credit Hours

Core Courses: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**

- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization Courses: 15 Credit Hours

- EEC 7058 - Theoretical Foundations of Early Childhood **3 Credit Hours**
- EEC 7673 - Early Childhood: Professional Publishing and Grant Writing **3 Credit Hours**
- EEC 7055 - Advocacy, Public Policy, and Program Evaluation **3 Credit Hours**
- EEC 7409 - Current Trends in Child, Family, and Community Sciences **3 Credit Hours**
- EEC 7676 - Critical Analysis of Early Childhood Research **3 Credit Hours**

Required Internship: 6 Credit Hours

- EEC 7945 - Early Childhood: Internship in Teaching and Supervision **3 Credit Hours**
- EEC 7948 - Early Childhood: Internship in Research **3 Credit Hours**

Dissertation: 15 Credit Hours minimum

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé.
- Writing sample.
- Interview.

Application Deadlines

Early Childhood	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Judith Levin, PhD

Associate Lecturer

judith.levin@ucf.edu

Telephone: 407-823-4615

Education 122

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

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Graduate Fellowships

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finaid@ucf.edu

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Education PhD, Elementary Education Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/teachered/elementary-education/	

Track Description

The Elementary Education track in the Education PhD program is designed to provide further education for those aspiring to work in the area of education at the post-secondary level (four-year colleges and/or research universities).

The program permits students to concentrate their doctoral study in either a field of emphasis, such as science, mathematics, literacy and social studies, or to create an interdisciplinary focus, such as mathematics-science or reading-social studies. The program of study is most appropriate for educators who can create, analyze and synthesize educational studies and for educators seeking employment in settings requiring a strong research base. In contrast to the EdD, the doctoral program relies on students who progress through their program of study in cohorts and who are full members of the learning community of the College of Community Innovation and Education. The program includes a strong philosophical base, research seminars requiring one-on-one work with faculty members, cluster seminars requiring work with several faculty members in interdisciplinary research projects, and long-term mentoring via supervised internships.

Curriculum

The Elementary Education track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 6 credit hours of specialization courses, 12 credit hours of electives, 3-6 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Required Courses: 30 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)

- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
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- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 6 Credit Hours

- Philosophical Foundations for Studies in Education **3 Credit Hours**
- Writing for Professional Publication in Education **3 Credit Hours**

Elective Courses: 12 Credit Hours

Areas of emphasis: four additional courses in one or more areas including Science Education, Literacy Education, Technology Education, or Arts Education with one course from outside the college in a related field of study (12 credit hours minimum).

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- EDE 7980 - Dissertation Research **15 Credit Hours** minimum

Required Internship: 3-6 Credit Hours

Depending on the student's experiential background, the program of study requires three to six variable credit hours of supervised internships. Often elementary teachers seeking the PhD have served as successful supervising teachers to undergraduate interns. If this is not the case, the adviser may seek to have the doctoral student take three credit hours to serve as a supervised internship coordinator at the university level. Additionally, students interested in long-term goals related to research may want to use the variable credit hours to accumulate a minimum of 250 hours as a supervised intern working for an educational researcher. Most likely, since our doctoral students' career goals will align with the professoriate, students will be required to teach one university course with supervision and feedback from an established professor. The adviser/program coordinator will determine the kind of internship and the number of semester hours needed. These internship experiences are highly valued and set the candidate apart from other applicants as they seek employment at the college and university level.

- EDE 6946 Elementary Education Internship **3-6 Credit Hours** minimum

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study, including one Graduate Curriculum course, and master's level competency in educational research and statistics.
- A minimum of 12 credit hours of Graduate Education courses.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé.
- Writing sample.
- Interview.
- Elementary certification, with a minimum of three years teaching experience in early childhood, elementary, or middle school.

Application Deadlines

Elementary Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Contact Info

Graduate Program

Sherron Roberts EdD
Professor
sherron.roberts@ucf.edu
EDU 315U

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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Mailing Address
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finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Exceptional Education Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation

Track Description

The Exceptional Education track in the Education PhD program is designed to prepare highly competent doctoral-level professionals to assume leadership positions in teaching, research and service in the area of special education.

The Exceptional Education track is a challenging program of study. The program focuses on developing the qualifications to conduct research, implement best practices based on research, and evaluate new programs and projects that serve students with disabilities.

Curriculum

The Exceptional Education track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 15 credit hours of specialization courses, 6 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Required Courses: 39 Credit Hours

Core Courses: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)
- CAP 5115 - Virtual Reality Engineering **3 Credit Hours**
- CAP 6110 - Augmented Reality Engineering **3 Credit Hours**
- CAP 6117 - Mixed Reality Project **3 Credit Hours**
- EEX 7466 - Universal Design for Learning (UDL): A framework for Exceptional Education Research **3 Credit Hours**

Specialization Courses: 15 Credit Hours

- EEX 7936 - Current Issues Trends in Special Education **3 Credit Hours**
- EEX 7527 - Professional Writing Grant Writing in Special Education **3 Credit Hours**
- EEX 7766 - Technology Research Training in Special Education **3 Credit Hours**
- EEX 7428 - Personnel Preparation: Special Education **3 Credit Hours**
- EEX 7320 - Program Evaluation and Planning in Special Education **3 Credit Hours**

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- EEX 7980 - Dissertation Research **15 Credit Hours** minimum

Internship: 6 Credit Hours

Specialization in this track must include a minimum of 6 credit hours in professional internship.

- EEX 7865 - Internship in College Instruction in Special Education **3 Credit Hours**
- EEX 7866 - Internship in Practicum Supervision in Special Education **3 Credit Hours**

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé
- A timed writing sample produced during the interview.
- Group interview with faculty. Current doctoral students may also interview applicants.

Application Deadlines

Exceptional Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Lisa Dieker PhD

Pegasus Professor

ldieker@ucf.edu

Telephone: 407-823-3885

ED 315M

Graduate Admissions

TBD

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Higher Education Track

College: Community Innovation and Education	Degree: PhD
Department: Educational Leadership and Higher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/elhe/higher-education/	

Track Description

This program has temporarily suspended admission effective Fall 2020.

The Higher Education track in the Education PhD program is designed for applicants who have extensive experience as administrators or staff in postsecondary institutions who want to pursue careers as scholars and leaders.

A doctoral degree in this track will broaden the analytical skills necessary to contribute to the advancement of the field of higher education through research, administration and teaching. The students in this program are considered future leaders interested in intensive study of the organizational and policy issues influencing the diverse sector comprising contemporary American postsecondary education.

Curriculum

The Higher Education track in the Education PhD program requires 66 credit hours beyond the master's degree. The curriculum includes 24 credit hours of core courses, 27 credit hours of specialization courses, and 15 credit hours of dissertation.

Total Credit Hours Required: 66 Credit Hours Minimum beyond the Master's Degree

Required Courses: 51 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 27 Credit Hours

- EDH 7047 - Diversity in Issues Higher Education **3 Credit Hours**
- EDH 7401 - Higher Education and Public Policy **3 Credit Hours**
- EDH 7405 - Legal Issues in Higher Education **3 Credit Hours**
- EDH 7934 - Higher Ed Literature, Research, and Professional Writing Seminar **3 Credit Hours**

- EDH 7066 - Higher Education: Philosophical/Historical Perspectives **3 Credit Hours**
- EDH 7508 - Finance in Higher Education **3 Credit Hours**
- EDH 7665 - Higher Education Leadership **3 Credit Hours**
- EDH 7636 - Organizational Theory and Practices in Higher Education **3 Credit Hours**
- EDH 7631 - Managing change, conflict, and stability in Higher Education **3 Credit Hours** or one of the approved research electives from group C:

Group C

- EDH 7207 - Curriculum, Instruction, and Distance Learning in Higher Education **3 Credit Hours**
- EDH 7366 - Assessment Practices in Higher Education **3 Credit Hours**
- EDH 7208 - International Perspectives of Higher Education **3 Credit Hours**

Candidacy Examination: 0 Credit Hours (Required for Advancement to Candidacy [Dissertation hours])

Candidacy examinations will be scheduled near the tenth week of the fall and spring semesters; summer exams will not be offered. The exams are:

- Part 1. Written examination (submitted through webcourses)
- Part 2. Oral examination

Evidence of the following are required to be eligible to complete the doctoral comprehensive examination in the Education PhD program, Higher Education track:

- Currently enrolled in the university during the semester any comprehensive examination is taken.
- Submission of an approved program of study (overall GPA 3.0 or greater on all graduate work).
- Completion of most course work. (Students may only take exams when only 2-3 semesters of course work remain. This statement does not refer to dissertation hours.)
- In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.)
- Submission of an approved doctoral comprehensive examination application by the stated deadline.
- Fulfill any program deadlines for submitting comprehensive examination content-related materials (topics, questions, etc.) to the program coordinator by the stated deadline. (See program website for details HEPS: <https://ccie.ucf.edu/elhe/higher-education>).

Candidacy

Candidacy is the stage of doctoral studies when students focus exclusively on planning, researching and writing their proposal and dissertation. To enter candidacy for the Education Ph.D. program, Higher Education track, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. In addition, evidence of the following are required to be admitted to candidacy and enroll in dissertation hours at least one week before the first day of classes for which the students wishes to enroll in dissertation hours:

- Submission of an approved program of study.
- Completion of all course work, except for dissertation hours.
- Successful completion of all parts of the candidacy examinations.

- In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.)

Note: Once students enter Candidacy, they must enroll in a minimum of three dissertation hours (see below) every semester (including summers), until they graduate from the program.

Dissertation: 15 Credit Hours minimum

Registration for dissertation hours is not permitted until the student is admitted to Candidacy.

Doctoral students must work with their doctoral adviser/major professor to prepare a proposal and present and defend the proposal to the dissertation committee. Once the proposal is completed and approval is secured from the UCF Institutional Review Board (IRB), students conduct research and submit and defend the final research dissertation to their dissertation committee.

Required Documentation During Dissertation Stage

All items listed are necessary to fulfill the requirements to graduate.

- Application to Defend Dissertation Proposal
- Dissertation Proposal Approval
- Application for IRB Approval of Research
- Defense Dissertation Announcement
- Dissertation Approval
- Application to Graduate
- All necessary requirements of the College of Graduate Studies for graduation

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Evidence of a minimum of one year full-time or two years part-time professional higher education work experience. Evidence may include, but not be limited to, any one of the following: work experience listed on the resume/CV with confirmation email/telephone, letter of reference, or copies of annual reviews, etc. (Please note that graduate assistantships, teaching assistantships, internships and practica do not fulfill this requirement.)
- One official transcript (in a sealed envelope) from each college/university attended.
- Minimum GPA of 3.0 (on 4.0 scale) in the last 60 credit hours of undergraduate degree.
- Minimum GPA of 3.0 (on 4.0 scale) for all graduate work at the time of application.
- A master's degree in a closely related field from a regionally accredited institution.
- Official, competitive GRE score taken within the last five years.

- Three letters of recommendation (electronic or hard copy).
- Goal statement. (Describe the following: preparedness for the program, career goals related to program, and potential area of research interest in the program.)
- Resumé/CV.
- Submit one of the following writing samples: research paper, journal article, grant proposal, policy analysis, or program evaluation.

Application Deadlines

Higher Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Thomas Cox EdD
 Associate Professor
thomas.cox@ucf.edu
 ED 315

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Instructional Design and Technology Track

College: Community Innovation and Education	Degree: PhD
Department: Learning Sciences and Educational Research	Option: Dissertation
Program Website: https://ccie.ucf.edu/lser/instructional-design-and-technology/	

Track Description

The Instructional Design and Technology track in the Education PhD program prepares students for teaching and research in the field of instructional design and technology, instructional systems, educational technology, and e-learning in professions such as university professor, corporate directors of training and human resources, and corporate researchers.

The focus is on the design of conventional in-class, online and hybrid training and educational programs, and the application of appropriate instructional technologies to facilitate adult learner. For more information about the Instructional Design and Technology track, visit education.ucf.edu/insttech.

Curriculum

The Instructional Design and Technology track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 9 credit hours of specialization courses, 9 credit hours of electives, 3 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Required Courses: 33 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**

- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 9 Credit Hours

- IDS 6504 - Adult Learning **3 Credit Hours**
- IDS 6503 - International Trends in Instructional Systems **3 Credit Hours**
- EME 7634 - Advanced Instructional Systems Design **3 Credit Hours**

Elective Courses: 9 Credit Hours

- Cognate or elective; approved by adviser **9 Credit Hours** minimum

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- EME 7980 - Dissertation Research **15 Credit Hours** minimum

Required Internship: 3 Credit Hours

- EME 7942 - Doctoral Internship in Educational Technology **3 Credit Hours** minimum

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Submission and completion of approved program of study, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Satisfactory progress toward the independent learning requirements as evidenced by the annual accomplishments and activities report.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

During their program of study, PhD students are required to meet the following requirements for independent learning to enter candidacy, including:

- Submitting a manuscript that is deemed appropriate by at least one program faculty member for publication in a peer-reviewed journal.
- Presenting research in at least one international, national or state conference.
- Presenting at university and/or college research symposiums annually.
- Providing service to professional organization, community partner, and/or program.
- Documenting and presenting independent learning accomplishments and activities along with development of an individual research agenda deemed satisfactory by at least two or more program faculty on an annual basis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE (Verbal, Quantitative, and Written) score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Writing sample of a ten to twenty-page original paper on any topic.

Application Deadlines

Instructional Design and Technology	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Atsusi Hirumi PhD

Associate Professor

hirumi@ucf.edu

ED 320-F

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Learning Sciences Track ♦

College: https://ccie.ucf.edu/	Degree: PhD
Department: https://ccie.ucf.edu/lser/	
Program Websites: https://ccie.ucf.edu/education-phd/	

Track Description

The Learning Sciences track in the Education PhD program is an interdisciplinary track within the Education PhD that will expose students to key components of research on learning with additional training on using big data for research on learning analytics and data science for focus on learning for both humans and machines. The track will provide learning opportunities (i.e., cognitive science, computer science, data science, education, psychology, statistics) for graduate students at UCF who seek careers in both academia and industry. The program will contain the core courses from the Education PhD, but requires at least 9 hours of required specialization credits in specific Learning Sciences courses and at least 6 hours of required elective credits, providing students the opportunity to earn a certificate in a related field of human-machine learning, if desired. This will increase career opportunities for interdisciplinary research jobs in academia or industry across the country.

Curriculum

The Learning Sciences track in the Education PhD program requires a minimum of 54 credit hours beyond a master's degree in Learning Sciences or a related field.

Students must complete 24 credit hours of core courses, 9 credit hours of specialization courses, 6 credit hours of electives, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 54 Credit Hours Minimum beyond the Master's Degree

Required Courses: 30 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**

Specialization: 9 Credit Hours

- EME 6938 - ST: Research on Advanced Learning Technologies **3 Credit Hours**
- EME 6938 - Theoretical Foundations of the Learning Sciences **3 Credit Hours**
- EME 6938 - ST: Metacognition **3 Credit Hours**

Elective Courses: 6 Credit Hours

Students will select at least 2 courses from the following disciplines:

- **Psychology (PSY)**
- **Statistics (STA)** can include the *SAS Data Mining Graduate Certificate (15 credit hours)*
- **Philosophy and Cognitive Science (PHI)** can include the *Cognitive Sciences Graduate Certificate (18 credit hours)*
- **Computer Science (CS)**
- **Multidisciplinary Neuroscience Alliance (MDNA) interdisciplinary program**

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- EME 7980 - Dissertation Research **15 Credit Hours** minimum

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Submission and completion of approved program of study, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Satisfactory progress toward the independent learning requirements as evidenced by the annual accomplishments and activities report.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

During their program of study, PhD students are required to meet the following requirements for independent learning to enter candidacy, including:

- Submitting a manuscript that is deemed appropriate by at least one program faculty member for publication in a peer-reviewed journal.
- Presenting research in at least one international, national or state conference.
- Presenting at university and/or college research symposiums annually.
- Providing service to professional organization, community partner, and/or program.

- Documenting and presenting independent learning accomplishments and activities along with development of an individual research agenda deemed satisfactory by at least two or more program faculty on an annual basis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE (Verbal, Quantitative, and Written) score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Writing sample of a ten to twenty-page original paper on any topic.

Application Deadlines

Learning Sciences	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Michelle Taub PhD
Assistant Professor
michelle.taub@ucf.edu
HPAII 238-A

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Mathematics Education Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The Mathematics Education track in the Education PhD program is designed to prepare mathematics educators for various career options, including preparing educators, teaching postsecondary mathematics, and conducting research in mathematics education.

Doctoral students in the track engage in undergraduate teaching, participate in research activities with faculty, experience internships, and interact with the nationally acclaimed Lockheed Martin/UCF Teaching Academy for Mathematics and Science.

Curriculum

The Mathematics Education track in the Education PhD program requires a minimum of 63 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 9 credit hours of specialization courses, 12 credit hours of electives, 3 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Master's Degree

Required Courses: 33 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**

- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 9 Credit Hours

- MAE 7640 - History of Mathematics Education **3 Credit Hours**
- MAE 7795 - Seminar on Research in Mathematics Education **3 Credit Hours**
(repeated for a total of 6 credit hours)

Elective Courses: 12 Credit Hours

- Course work in elementary mathematics education **3 Credit Hours**
- Course work in secondary mathematics education **3 Credit Hours**
- Course work in mathematics or mathematics education **6 Credit Hours**

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- MAE 7980 - Dissertation Research **15 Credit Hours** minimum

Internship: 3 Credit Hours

- MAE 7945 - Internship in Mathematics Education **3 Credit Hours** minimum

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The

associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field and master's level competency in educational research and statistics.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.

Application Deadlines

Mathematics Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		

International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Sarah Bush PhD
Associate Professor
sarah.bush@ucf.edu
ED 123D

Graduate Admissions

TBD
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
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finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Methodology, Measurement and Analysis Track

College: Community Innovation and Education	Degree: PhD
Department: Learning Sciences and Educational Research	Option: Dissertation
Program Website: https://ccie.ucf.edu/methodology-measurement-and-analysis/	

Track Description

The Methodology, Measurement, and Analysis track in the Education PhD program is designed to prepare methodologists in education, the social sciences, and other human sciences for either the professoriate or practice including diverse quantitative and qualitative areas such as statistical consulting and data analytic fields, psychometrics, and program evaluation.

Four major areas are encompassed in the Methodology, Measurement, and Analysis program: quantitative research, qualitative research, measurement, and program evaluation.

Curriculum

The Methodology, Measurement and Analysis track in the Education PhD program requires a minimum of 64 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 18 credit hours of specialization courses, 6 credit hours of electives, 3 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 64 Credit Hours Minimum beyond the Master's Degree

Required Courses: 42 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar **3 Credit Hours**

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 18 Credit Hours

- EDF 7427 - Psychometrics **3 Credit Hours**

- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7476 - Advanced Research Methods **3 Credit Hours**
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**

Electives: 6 Credit Hours

- EDF 6447 - Development and Validation of Educational Tests and Measures **3 Credit Hours**
- EDF 6464 - Mixed Methods for Evaluation in Educational Settings **3 Credit Hours**
- EDF 6486 - Research Design in Education **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDG 6285 - Evaluation of School Programs **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- EDF 7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis **3 Credit Hours**

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- EDF 7980 - Dissertation Research **15 Credit Hours** minimum

Internship: 3 Credit Hours

- EDF 7947 Internship **3 Credit Hours**

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé.
- Writing Sample.
- Interview.

Application Deadlines

Methodology, Measurement and Analysis	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Stephen Sivo PhD

Professor

Stephen.Sivo@ucf.edu

Telephone: 407-823-4147

ED 222Q

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Education PhD, Reading Education Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/teachered/k-12/	

Track Description

The Reading Education track in the Education PhD program is designed to provide further education for those aspiring to work in the area of education at the post-secondary level (four-year college and/or research university) or as a lead teacher/resource teacher for a school district. The program assumes prior study in reading education.

The program provides for an area of advanced study in the field of reading and a concentration in a closely related field. The program includes a strong research base through the research core and specialization course work and an internship during which a candidate gains professorial experience.

Students are required to have the equivalent of the Master of Education in Reading degree, 21 hours of graduate reading education credit, prior to entering the program. In the event that a student does not have 21 hours of graduate reading education credit, the student can be admitted to the program, but will be required to complete the 21 hours in addition to the required program hours.

Curriculum

The Reading Education track in the Education PhD program requires a minimum of 69 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 15 credit hours of specialization courses, 9 credit hours of electives, 3-6 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 69 Credit Hours Minimum beyond the Master's Degree

Required Courses: 39 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**

- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 15 Credit Hours

- RED 7797 - Theoretical Processes of Reading Comprehension **3 Credit Hours**
- RED 7743 - Reading and Writing Processes **3 Credit Hours**
- RED 7648 - Analysis and Evaluation of Trends and Issues in Literacy Education **3 Credit Hours**
- RED 7745 - Research in Reading Education Seminar **3 Credit Hours**
- RED 7697 - Literacy for the Twenty-First Century **3 Credit Hours**

Elective Courses: 9 Credit Hours

Students choose a minimum of 9 credit hours of elective courses from a concentration in a related field, such as Communication Sciences and Disorders, Exceptional Student Education, TESOL, Language Arts Education, Children's/Adolescent Literature.

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present to the dissertation committee, and defend the final research submission with the dissertation committee.

- RED 7980 - Dissertation Research **15 Credit Hours** minimum

Internship: 3-6 Credit Hours

- RED 7947 - Internship in Reading Education **3 Credit Hours** (repeat 1-2 times)

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 grade point average on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertations fulfill the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study, including one Graduate Curriculum course, and master's level competency in educational research and statistics.

- A minimum of 21 credit hours of graduate reading education courses.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé.
- Writing sample.
- Interview.

Application Deadlines

Reading Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Vicky Zygouris-Coe PhD
 Assistant Professor
 Vassiliki.Zygouris-Coe@ucf.edu
 Telephone: 407-823-0386
 ED 315

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
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<http://finaid.ucf.edu>

Education PhD, Science Education Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

This Science Education track in the Education PhD program is designed to prepare science educators for various career options, including training science teachers, teaching postsecondary science, and conducting research in science education.

Doctoral students in this track engage in research activities with an interdisciplinary faculty, experience internships, and interact with the nationally acclaimed Lockheed Martin/UCF Teaching Academy for Mathematics and Science.

Curriculum

The Science Education track in the Education PhD program requires a minimum of 66 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 18 credit hours of specialization courses, 3 credit hours of electives, 6 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 66 Credit Hours Minimum beyond the Master's Degree

Required Courses: 42 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 18 Credit Hours

- SCE 7746 - Teaching Theory and Research in Science Education **3 Credit Hours**
- SCE 7145 - Design of Post Secondary Science Curriculum **3 Credit Hours**
- SCE 7242 - Assessment in Science Teaching, Learning and Research **3 Credit Hours**
- SCE 7864 - Science Technology and Society **3 Credit Hours**
- SCE 7935 - Seminar–Professional Writing/Grants in Science Education **3 Credit Hours**
- SCE 7146 - Professional Issues in Science Education **3 Credit Hours**

Electives: 3 Credit Hours

- Additional specialization electives **3 Credit Hours** minimum

Dissertation: 15 Credit Hours minimum

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- SCE 7980 - Doctoral Dissertation **0-12 Credit Hours**

Internship: 6 Credit Hours

- SCE 7942 - Internship/Practicum in Science Education **3 Credit Hours** (K-12 or Community College)
(6 credit hours minimum: 2 semesters, 3 hours each of internship)

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.

- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation serves as the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé.
- Interview.

Application Deadlines

Science Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Malcolm Butler PhD

Associate Professor

malcolm.butler@ucf.edu

Telephone: 407-823-3272

ED 322-T

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Graduate Financial Aid

UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Education PhD, Social Science Education Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The Social Science Education track in the Education PhD program is designed to prepare social science educators for successful careers in research and teaching.

The program assists students in providing options to careers in preparing social science teachers, teaching post-secondary social science (history, political science, economics, etc.), and conducting research activities in social science education. Doctoral students in the track engage in research activities with an interdisciplinary faculty, experience internships, and interact with various social science educators and social science experts. Throughout this program, students are mentored by experienced and successful university social science education faculty. Based on the students' previous graduate course work, students may be required to complete additional graduate social science education (SSE) courses and/or graduate content courses beyond the minimum requirements.

Curriculum

The Social Science Education track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 18 credit hours of specialization courses, 3 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Required Courses: 42 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from Group A
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from Group B

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 18 Credit Hours

- SSE 7740 - History of Social Studies Education **3 Credit Hours**
- SSE 7796 - Research in Social Science Education Seminar **3 Credit Hours**
- SSE 7797 - Content and Program Analysis in Social Science Education **3 Credit Hours**
- SSE 7700 - Critical Issues in Social Studies Teacher Education **3 Credit Hours**
- Social Science Education (SSE) Electives **6 Credit Hours**; must be approved by adviser

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- SSE 7980 - Dissertation Research **15 Credit Hours** minimum

Internship: 3 Credit Hours

- SSE 7947 - Internship in Social Science Education **3 Credit Hours**

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note there may be variations in length of exam time and content based upon the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation fulfills the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.

- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement / letter of intent.
- Resumé / vita reflecting relevant experience.
- Writing sample.

Eligibility for admission to a doctoral program should be limited to superior students who have demonstrated intellectual ability, high achievement, and adequate preparation for advanced study and research in a chosen field.

Application Deadlines

Social Science Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

William Russell PhD

Associate Professor

russell@ucf.edu

Telephone: 407-823-4345

Education 115J

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Education PhD, Teaching English to Speakers of Other Languages Track

College: Community Innovation and Education	Degree: PhD
Department: School of Teacher Education	Option: Dissertation
Program Websites: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The University of Central Florida is uniquely positioned to meet the critical need for advanced degrees in TESOL. Faculty from the College of Community Innovation and Education and the College of Arts and Humanities approach TESOL issues from multiple perspectives and collaborate in teaching and research.

Combining the interdisciplinary expertise of faculty in two Colleges, the PhD Track in TESOL offers students in-depth experiences in the research, theory, and practice of TESOL, as well as flexibility in selecting a complementary cognate that meets their professional goals.

Curriculum

The Teaching English to Speakers of Other Languages (TESOL) track in the Education PhD program requires at least 63 credit hours of study beyond the master's degree. The curriculum includes 24 credit hours of core courses, 15 credit hours of TESOL specialization courses, 9 credit hours of cognate courses, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Master's Degree

Prerequisites

- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6440 - Assessment Issues in TESOL **3 Credit Hours**
- TSL 6642 - Issues in Second Language Acquisition **3 Credit Hours**
- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours** or
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**

Required Courses: 48 Credit Hours

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**

- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization: 15 Credit Hours

Students are required to take the following five courses:

- TSL 6643 - Diachronic Analysis of Second Language Acquisition Processes **3 Credit Hours**
- TSL 6379 - Second Language Literacy **3 Credit Hours**
- TSL 6600 - Second Language Vocabulary Acquisition **3 Credit Hours**
- TSL 6252 - Sociolinguistics for ESOL **3 Credit Hours**
- TSL 7006 - Second Language Teacher Preparation **3 Credit Hours**

Cognate: 9 Credit Hours

A minimum of 9 credit hours of cognate courses must be approved by the adviser and graduate program director. Possible cognates include Communication Sciences and Disorders, Community College Teaching, Exceptional Education, Global and Comparative Education, Multicultural Education, Instructional Technology, Program Administration, Reading, and other related areas.

Dissertation: 15 Credit Hours minimum

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- TSL 7980 - Dissertation Research **VAR Credit Hours**

Examinations

A qualifying examination will be required during the first year of study as an intake, diagnostic tool to determine student proficiency in TESOL. A written candidacy examination will be required to be admitted to candidacy and will normally occur at the completion of course work.

Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Additional Program Requirement:

Students must have completed a minimum of two college-level courses in a foreign language or basic proficiency in a foreign language as measured by the American Council on the Teaching of Foreign Languages (ACTFL) oral proficiency interview (OPI) or other assessment approved by the program faculty before completion of 36 hours of study. Non-native speakers of English may use their native language to meet this requirement. This requirement may be satisfied prior to admission but must be satisfied prior to candidacy.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation no more than one year old from people who can attest to your potential and ability for doctoral level work.
- Goal statement.
- Resume.
- A master's thesis or two original papers related to graduate coursework.

Application Deadlines

Teaching English to Speakers of Other Languages	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Joyce Nutta PhD

Professor

joyce.nutta@ucf.edu

Telephone: 407-823-4341

ED 122M

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Educational Leadership EdD

College: Community Innovation and Education	Degree: EdD
Department: Educational Leadership and Higher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/elhe/educational-leadership/	

Program Description

The Educational Leadership EdD program is designed to prepare educators for leadership positions at all levels of educational administration from PK-12 to higher education, as well as leadership positions in various educational agencies or organizations. As well, the program prepares students for positions in teaching and research. As a professional program, studies are flexible and diverse, allowing for individual needs to be met. While a thorough knowledge of the field of educational leadership is expected of all doctoral students, individuals will also gain expertise in at least one area of specialization. Specialization knowledge is obtained through course work, independent and directed studies, research, and field experiences. Educational Leadership doctoral programs are designed to broaden administrative knowledge and skills of practicing professionals.

The **Higher Education** track is appropriate for students who are committed to advancing their leadership capabilities in college and university settings. The Program of Study has been designed to broaden the administrative knowledge and skills of higher education professionals who bring to the program a prior discipline specialization. Students admitted to the program are typically employed in teaching, research and administrative positions in universities, colleges, community colleges and education related institutions and organizations. The Higher Education track requires completion of a dissertation.

The **Executive track in Educational Leadership EdD**. The Executive EdD is appropriate for students who are committed to advancing their leadership opportunities and capabilities in PK-12 and other organizational settings. Students admitted to the program are typically employed in teaching and administrative positions in elementary and secondary schools, as well as other educational agencies and organizations. Focus areas include: political and organizational theory, leadership, systems theory, planning and evaluation, school law and finance, data-based decision making, communications, instructional leadership, human resource management, program analysis and evaluation. Educational Leadership certification is not included in this program.

The program is taught in a lock-step cohort-based format to be convenient to those who are working in teaching and administrative positions. The Executive track requires completion of a client-based field study.

Program Tracks

- Educational Leadership EdD, Executive Track
- Educational Leadership EdD, Higher Education Track

Curriculum

Students must choose one of either two tracks in the Educational Leadership program: the Executive Track or Higher Education Track. The Executive track requires a minimum of 54 credit hours beyond the master's degree, including 6 credit hours of a client-based Doctoral Field Study and at least 15 credit hours of Dissertation in Practice. The Higher Education track requires 63 minimum credit hours based on evidence of a master's degree with an emphasis related to the study of higher education as a field of inquiry.

Total Credit Hours Required: 54-63 Credit Hours Minimum beyond the Master's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted and processed by the established deadline. Only complete applications will be considered.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Graduate Affairs Office, CCIE

cciegrad@ucf.edu

Telephone: 407-823-5369

ED 115

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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http://finaid.ucf.edu

Educational Leadership EdD, Executive Track

College: Community Innovation and Education	Degree: EdD
Department: Educational Leadership and Higher Education	
Program Website: https://ccie.ucf.edu/elhe/educational-leadership/	
Graduate Program Handbook	

Track Description

The Executive track in the Educational Leadership EdD program is designed to prepare educators for leadership positions in PK-12 organizations and other educational organizations. The program prepares students for professional practice as scholarly practitioners.

The Executive EdD is appropriate for students who are committed to advancing their leadership opportunities and capabilities in PK-12 and other organizational settings. Students admitted to the program are typically employed in teaching and administrative positions in elementary and secondary schools, as well as other educational agencies and organizations. Focus areas include: political and organizational theory, leadership, systems theory, planning and evaluation, school law and finance, data-based decision making, communications, instructional leadership, human resource management, program analysis and evaluation. Educational Leadership certification is not included in this program.

Curriculum

The Executive track requires a minimum of 54 credit hours beyond the master's degree, including 6 credit hours of a client-based Doctoral Field Study and at least 15 credit hours of Dissertation in Practice. The plan of study for the Executive track in the Educational Leadership EdD is arranged as a lock-step cohort-based program to facilitate scheduling for those who are employed in teaching and administrative positions. Details about this program are found in the Executive Handbook.

Total Credit Hours Required: 54 Credit Hours Minimum beyond the Master's Degree

Required Courses: 39 Credit Hours

Core: 24 Credit Hours

- EDA 7101 - Organizational Theory in Education **3 Credit Hours**
- EDA 7192 - Educational Leadership **3 Credit Hours**
- EDA 7195 - Politics, Governance, and Financing of Educational Organizations **3 Credit Hours**

- EDA 7205 - Planning, Research, and Evaluation Systems in Educational Administration **3 Credit Hours**
- EDA 7225 - Advanced Legal Studies in Education **3 Credit Hours**
- EDA 7215 - Community Outreach for Educational Leaders **3 Credit Hours**
- EDA 7193 - Instructional Leadership **3 Credit Hours**
- EDA 7224 - Human Resource Development in Educational Organizations **3 Credit Hours**

Research Methods: 9 Credit Hours

- EDF 7471 - Research in Educational Leadership I **3 Credit Hours**
- EDF 7407 - Research in Educational Leadership 2 **3 Credit Hours**
- EDF 7408 - Research in Educational Leadership 3 **3 Credit Hours**

Doctoral Field Study: 6 Credit Hours

Doctoral students will conduct a dissertation in practice on an issue or problem of practice during the last four semesters of the program. The proposal is developed during the first 3 semester hours of EDA 7943 and implemented during the second semester.

- EDA 7943 - Field Project in Educational Leadership **3-6 Credit Hours**

Dissertation in Practice: 15 Credit Hours

In EDA 7987 - Dissertation in Practice students conduct scholarly research on a complex problem of practice in an education organization. The dissertation in practice will have an introduction, literature review, methodology, findings, and discussion and conclusions.

- EDA 7987 - Dissertation in Practice **1-6 Credit Hours** (15 credit hours minimum)

Candidacy

To enter candidacy for the Executive track in the Educational Leadership EdD program, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required milestones.

The following are required to be admitted to candidacy:

- Completion of an on-demand writing whitepaper (Milestone #1) to be completed prior to summer semester Year 1.
- Completion of a dissertation in practice proposal (Milestone #2) accepted during the summer semester of Year 2.
- Completion of all course work, except for the Doctoral Field Study.
- Submission of an approved program of study.

Independent Learning

The doctoral field study provides an independent learning experience by having students conduct a study on an issue or problem of practice in education.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted and processed by the established deadline. Only completed applications by the deadline will be considered.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (sent electronically or in a sealed envelope) from each college/university attended.
- Master's degree in a closely related field.
- Official, competitive GRE score, taken within the last five years.
- Three letters of recommendation.
- Resume.
- Goal statement.

Admission to the program is once per year, fall term only, with students paced in a cohort sequence.

Application Deadlines

Executive	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	May 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Daniel Eadens, EdD
Associate Professor
Daniel.Eadens@ucf.edu
Telephone 407-823-4751
ED 220-E

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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finaid@ucf.edu
<http://finaid.ucf.edu>

Educational Leadership EdD, Higher Education Track

College: Community Innovation and Education	Degree: EdD
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Department: Educational Leadership and Higher Education	Option: Dissertation
Program Website: https://ccie.ucf.edu/elhe/higher-education/	
Graduate Program Handbook	

Track Description

This program has temporarily suspended admission effective Fall 2020 and will reopen for admission in Fall 2022.

The Higher Education track in the Educational Leadership EdD program is appropriate for students who are committed to advancing their leadership capabilities in college and university settings.

The Higher Education track in the Educational Leadership EdD program has been designed to broaden the administrative knowledge and skills of higher education professionals who bring to the program a prior discipline specialization. Students admitted to the program are typically employed in teaching, research and administrative positions in community colleges and universities or education related agencies.

Curriculum

Students pursuing the Higher Education track in the Educational Leadership EdD program are typically employed in two- or four-year colleges or universities. Their programs of study require them to complete a minimum of 36 credit hours of specified core and specialization courses plus two elective courses. Students must also complete 12 credit hours in research methods and 15 credit hours of dissertation. The 63 minimum credit hours is required beyond the master's degree, with an emphasis related to the study of higher education as a field of inquiry. Details about the administration of this program can be found in the Higher Education Handbook.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Master's Degree

Required Courses: 36 Credit Hours

Core: 18 Credit Hours

- EDH 7040 - Research on the College Student **3 Credit Hours**
- EDH 7401 - Higher Education and Public Policy **3 Credit Hours**
- EDH 7631 - Managing change, conflict, and stability in Higher Education **3 Credit Hours**
- EDH 7934 - Higher Ed Literature, Research, and Professional Writing Seminar **3 Credit Hours**
- EDH 7665 - Higher Education Leadership **3 Credit Hours**
- EDH 7047 - Diversity in Issues Higher Education **3 Credit Hours**

Specialization: 12 Credit Hours

- EDH 7405 - Legal Issues in Higher Education **3 Credit Hours**
- EDH 7066 - Higher Education: Philosophical/Historical Perspectives **3 Credit Hours**
- EDH 7508 - Finance in Higher Education **3 Credit Hours**

- EDH 7636 - Organizational Theory and Practices in Higher Education **3 Credit Hours**

Research Methods: 12 Credit Hours

Students take these three required research courses:

- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**

Choose a fourth research course from among those listed below:

- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- EDF 7483 - Mixed Methods Research in Education **3 Credit Hours**

Elective Courses: 6 Credit Hours

Choose only two courses from the list below.

- EDH 6047 - Theories of College Student Development **3 Credit Hours**
- EDH 6105 - Retention Strategies in Colleges and Universities **3 Credit Hours**
- EDH 7366 - Assessment Practices in Higher Education **3 Credit Hours**
- EDH 7638 - Advanced Seminar in Higher Education **3 Credit Hours**
- EDH 7208 - International Perspectives of Higher Education **3 Credit Hours**
- EDH 7207 - Curriculum, Instruction, and Distance Learning in Higher Education **3 Credit Hours**

Candidacy Examination: 0 Credit Hours (Required for Advancement to Candidacy [Dissertation hours])

Candidacy examinations will be scheduled near the tenth week of the fall and spring semesters; summer exams will not be offered. The exams are:

- Part 1. Written examination (submitted via webcourses)
- Part 2. Oral examination

Evidence of the following are required to be eligible to complete the doctoral comprehensive examination in the Educational Leadership EdD program, Higher Education track:

- Currently enrolled in the university during the semester any comprehensive examination is taken.

- Submission of an approved program of study (overall GPA 3.0 or greater on all graduate work).
- Completion of most course work. (Students may only take exams when only 2-3 semesters of course work remain. This statement does not refer to dissertation hours.)
- In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.)
- Submission of an approved doctoral comprehensive examination application by the stated deadline.
- Fulfill any program deadlines for submitting comprehensive examination content-related materials (topics, questions, etc.) to the program coordinator by the stated deadline. (See program website for details: <https://ccie.ucf.edu/elhe/higher-education/>)

Candidacy

Candidacy is the stage of doctoral studies when students focus exclusively on planning, researching and writing their proposal and dissertation. To enter candidacy for the Educational Leadership EdD program, Higher Education track, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. In addition, evidence of the following are required to be admitted to candidacy and enroll in dissertation hours at least one week before the first day of classes for which the student wishes to enroll in dissertation hours:

- Submission of an approved program of study.
- Successful completion of all course work, except for dissertation hours.
- Successful completion of all parts of the candidacy examination.
- In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.)

Note:

Once students enter Candidacy, they must enroll in a minimum of three dissertation hours (EDH 7980) every semester (including summers), until they graduate from the program.

Dissertation: 15 Credit Hours

Registration for dissertation hours is not permitted until the student is admitted to Candidacy.

Doctoral students must work with their doctoral adviser/major professor to prepare a proposal and present and defend the proposal to the dissertation committee. Once the proposal is completed and approval is secured from the UCF Institutional Review Board (IRB), students conduct research and submit and defend the final research dissertation to their dissertation committee.

- EDH 7980 - Dissertation **VAR Credit Hours** (15 credit hours minimum)

Required Documentation During Dissertation Stage:

All items listed are necessary to fulfill the requirements to graduate.

- Application to Defend Dissertation Proposal
- Dissertation Proposal Approval
- Application for IRB Approval of Research
- Defense Dissertation Announcement

- Dissertation Approval
- Application to Graduate
- All necessary requirements of the College of Graduate Studies for graduation

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Minimum GPA of 3.0 (on 4.0 scale) in the last 60 credit hours of undergraduate degree.
- Master's degree from a regionally accredited institution.
- Minimum GPA of 3.0 (on 4.0 scale) for all graduate work at the time of application.
- Official, competitive GRE score, taken within the last five years.
- Three letters of recommendation (electronic or hard copy).
- Resumé/CV.
- Goal statement. (Describe the following: preparedness for the program, career goals related to the program, and potential area of research interest in the program.)
- Evidence of a minimum of one year full-time or two years part-time professional higher education work experience. Evidence may include, but not be limited to, any one of the following: work experience listed on the resume/CV with confirmation email/telephone, letter of reference, or copies of annual reviews, etc.. (Please note that graduate assistantships, teaching assistantships, internships and practica do not fulfill this requirement.)
- An interview might be required.

Application Deadlines

Higher Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Apr 1		
International Applicants	Dec 1	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Thomas Cox EdD
Associate Professor
thomas.cox@ucf.edu
ED 315

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Electrical Engineering PhD

College: Engineering and Computer Science	Degree: PhD
Department: Electrical and Computer Engineering	Option: Dissertation
Program Websites: http://www.ece.ucf.edu/	
Graduate Program Handbook	

Program Description

The Electrical Engineering PhD (one of the three PhD programs offered by the School of EECS) prepares students for careers in research or academia with specializations including Communications, Digital Signal Processing/Image Processing, Controls and Robotics, Electromagnetics, Electro-Optics, Photonics, Power Electronics and Electronics, Solid-State/Microelectronics, and VLSI Design.

The specific research that each one of the EECS faculty conduct can be found at the School of EECS website (www.eecs.ucf.edu).

The Doctor of Philosophy in Electrical Engineering is primarily intended for students with a master's degree in Electrical Engineering or a closely related discipline who wish to pursue a career in research or academia. Specializations include Communications, Digital Signal Processing/Image Processing, Controls and Robotics, Electromagnetics, Electro-Optics, Photonics, Power Electronics and Electronics, and Solid-State/Microelectronics.

Research interests of the Electrical Engineering faculty include antennas, microwave and millimeter circuits/devices, communication systems, digital signal/image processing, power electronics, electronic circuits, IFF devices, electromagnetic theory, radar and microwave remote sensing, speech processing, VLSI design, spread spectrum systems, SAW and ACT devices, spectral estimation, solid state device modeling and computer-aided design (CAD) techniques, communication networks, integrated services digital networks, neural networks, systems and controls, robotics, robust control, computer control, microelectronics, semiconductors, thin films, power system stability, bipolar device modeling, solid state lasers, optical propagation, fiber optics, optical signal processing, laser-induced damage, optical testing, diffractive optics, phase conjunction, infrared detectors, Fourier optics, lens design, and nonlinear optics.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Engineering-Management-PhD.pdf>.

Curriculum

The Electrical Engineering PhD degree requires a minimum of 72 credit hours beyond the bachelor's degree. Of these 72 hours, a minimum of 36 credit hours must be formal coursework, exclusive of independent study coursework. A minimum of 15 credit hours with up to a maximum of 24 credit hours of dissertation hours can be credited toward the degree. No more than 12 credit hours of Independent Study are allowed. The remaining hours can be a combination of formal coursework and/or pre-candidacy doctoral research.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Formal coursework required is 36 credit hours, exclusive of independent study and research. A minimum of 15 credit hours of dissertation hours are required. All other credit hours will be determined with a faculty adviser. Students admitted with an earned master's degree may request to have up to 30 of those credit hours counted toward their doctoral program. The student's doctoral adviser in conjunction with the graduate office will determine the precise number of hours to be counted subject to Graduate Studies regulations.

The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog. Details about this program are located in the Electrical Engineering PhD Handbook.

Articulation Courses

Undergraduate articulation courses are required to be completed prior to admission for students who do not hold a Bachelor of Science degree in Electrical Engineering. In particular, the articulation courses specified below, plus all of the prerequisite string which any of them require, must be completed prior to admission. Grades of "B" or higher must be obtained in each articulation course specified below. Articulation courses are not eligible for inclusion on a graduate Program of Study.

- EEL 3123C Network and Systems
- EEE 3307C Electronics I
- EEL 3470 Electromagnetic Fields
- EEL 3552 Signal Analysis and Communications
- EEE 3350 Semiconductor Devices I

In addition, choose one of the following:

- EEL 3657 Linear Control Systems
- EEE 4309C Electronics II
- EEL 4750 Digital Signal Processing Fundamentals

Required Courses: 36 Credit Hours

- Suggested courses listed below.

Elective Courses—12-21 Credit Hours

- May include formal coursework, directed research hours, doctoral research hours, dissertation research, and no more than 12 credit hours of Independent Study.
- Suggested courses listed below.

Suggested Courses for Doctoral Program

The Electrical Engineering Program supports a number of specialization areas. These technical areas are (in alphabetical order): Electromagnetics and Optics (EO), Signal Processing and Systems (SPS), and Micro-Systems and Nano-Systems (MNS). The Micro-Systems and Nano-Systems area covers the typical Electrical Engineering topic areas of Electronics, Power Electronics and Micro-Electronics, while the Signal Processing and Systems area covers the typical electrical topic areas of communications, controls, and signal processing. Please contact your graduate program assistant Nicole Mitchell at nicole@eecs.ucf.edu or 407-823-0378 for a list of faculty within each specialization area.

For each one of these areas there is a suggested list of courses stated below. Students are also allowed to take courses from other specialization areas, but the majority of their courses should be chosen from courses in their specialization area.

Suggested Courses for Electromagnetics and Optics (EO)

- EEE 5542 - Random Processes I **3 Credit Hours**
- EEE 5557 - Introduction to Radar Systems **3 Credit Hours**
- EEL 5437C - Microwave Engineering **4 Credit Hours**
- EEL 5439C - RF and Microwave Active Circuits **4 Credit Hours**
- EEL 5462 - Antenna Analysis and Design **3 Credit Hours**
- EEL 5432 - Satellite Remote Sensing **3 Credit Hours**
- EEL 6425C - RF and Microwave Measurement Techniques **4 Credit Hours**
- EEL 6482 - Electromagnetic Theory I **3 Credit Hours**
- EEL 6481 - Numerical Techniques in Electromagnetics **3 Credit Hours**
- EEL 6489 - Advanced Topics in Electromagnetics and Microwaves **3 Credit Hours**
- EEL 6504 - Communications Systems Design **3 Credit Hours**
- EEL 6530 - Communication Theory **3 Credit Hours**
- MAP 5426 - Special Functions **3 Credit Hours**
- MAP 5435 - Advanced Mathematics for Engineers **3 Credit Hours**
- MAP 6424 - Transform Methods **3 Credit Hours**
- OSE 5041 - Introduction to Wave Optics **3 Credit Hours**
- OSE 5414 - Fundamentals of Optoelectronic Devices **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 6143 - Fiber Optics Communication System **3 Credit Hours**
- OSE 6211 - Imaging and Optical Systems **3 Credit Hours**
- OSE 6445 - Fundamentals of Ultrafast Optics **3 Credit Hours**
- OSE 6455C - Photonics Laboratory **3 Credit Hours**
- OSE 6615L - Optoelectronic Device Fabrication Laboratory **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**

Suggested Courses for Micro-Systems and Nano-Systems (MNS)

- BME 5572 - Biomedical Nanotechnology **3 Credit Hours**
- EEL 5245 - Power Electronics **3 Credit Hours**
- EEE 5332C - Thin Film Technology **3 Credit Hours**
- EEE 5352 - Semiconductor Material and Device Characterization **3 Credit Hours**
- EEE 5353 - Semiconductor Device Modeling and Simulation **3 Credit Hours**
- EEE 5356C - Fabrication of Solid-State Devices **4 Credit Hours**

- EEE 5370 - Operational Amplifiers **3 Credit Hours**
- EEE 5378 - CMOS Analog and Digital Circuit Design **3 Credit Hours**
- EEE 5390C - Full-Custom VLSI Design **3 Credit Hours**
- EEE 5555 - Surface Acoustic Wave Devices and Systems **3 Credit Hours**
- EEE 6317 - Power Semiconductor Devices and Integrated Circuits **3 Credit Hours**
- EEE 6358 - Advanced Semiconductor Device I **3 Credit Hours**
- EEL 6246 - Power Electronics II **3 Credit Hours**
- EEE 6326C - MEMS Fabrication Laboratory **3 Credit Hours**
- EEE 6338 - Advanced Topics in Microelectronics **3 Credit Hours**

Suggested Courses for Signal Processing and Systems (SPS)

- EEE 5513 - Digital Signal Processing Applications **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**
- EEE 5557 - Introduction to Radar Systems **3 Credit Hours**
- EEE 6504 - Adaptive Digital Signal Processing **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 5630 - Digital Control Systems **3 Credit Hours**
- EEL 5669 - Introduction to Robotics and Autonomous Vehicles **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 6026 - Optimization of Engineering Systems **3 Credit Hours**
- EEL 6504 - Communications Systems Design **3 Credit Hours**
- EEL 6530 - Communication Theory **3 Credit Hours**
- EEL 6590 - Advanced Topics in Communications **3 Credit Hours**
- EEL 6619 - Nonlinear Robust Control and Applications **3 Credit Hours**
- EEL 6621 - Nonlinear Control Systems **3 Credit Hours**
- EEL 6662 - Advanced Robotics **3 Credit Hours**
- EEL 6667 - Mobile Robotic Systems **3 Credit Hours**
- EEL 6671 - Modern and Optimal Control Systems **3 Credit Hours**
- EEL 6674 - Optimal Estimation for Control **3 Credit Hours**
- EEL 6616 - Adaptive Control **3 Credit Hours**
- EEL 6683 - Cooperative Control of Networked Autonomous Systems **3 Credit Hours**
- EEL 6812 - Introduction to Neural Networks **3 Credit Hours**
- CAP 5415 - Computer Vision **3 Credit Hours**
- CAP 6419 - 3D Computer Vision **3 Credit Hours**
- CAP 6411 - Computer Vision Systems **3 Credit Hours**
- CAP 6412 - Advanced Computer Vision **3 Credit Hours**

Dissertation:15-24 Credit Hours

- XXX 7980 Dissertation Research (15 credit hours minimum).
- The program will only allow students to complete up to 24 hours of dissertation coursework in XXX 7980.

The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website, www.cecs.ucf.edu/graddefense, at least two weeks before the defense date.

Qualifying Review

The Qualifying Review relies on annual appraisals of the student's progress conducted by the student's research/academic adviser and advisory committee, once formed. The student's appraisal template that the adviser completes will assess the student's academic performance (course performance) and research performance. On an annual basis, and based on the completed PhD Student Annual Review template, as well as additional student documentation attached with approval of the adviser, the EECS Graduate Committee will rate the student's performance as "Above Expectation," "At Expectation," or "Below Expectation" toward the completion of the PhD degree.

Students must pass the Qualifying Review no later than the deadline, which is the semester in which they complete 24 credit hours after admission or within two calendar years after admission, whichever occurs later. If a student has passed the Qualifying Review, then the student is eligible to continue PhD studies. However, a student who does not pass the Qualifying Review by the deadline will be dismissed from the degree program and will be given the opportunity to complete a master's degree (if applicable).

Dissertation Committee

PhD Dissertation Committees for this degree program must have all of the below characteristics:

- consist of at least five committee members including the committee chair
- the committee chair must be either a Regular Appointment faculty member in EECS or a Secondary-Joint Appointment faculty member in EECS
- at least 50% of committee members (when tabulated including the chair) must be EECS regular faculty
- the majority of committee members must vote in favor of passing for the student to Pass
- in addition to the above, all college and university requirements (such as one member outside of EECS) must be met.

Joint faculty members may serve as committee chairs, but graduate faculty scholars may not serve as committee chairs.

Candidacy Examination

After passing the Qualifying Review, students are required to successfully complete the candidacy examination in order to demonstrate readiness for preliminary research in a chosen field of study. This exam is administered by the student's dissertation advisory committee. Preparedness for taking the candidacy examination requires that the student must demonstrate his/her readiness for the PhD program in Electrical Engineering by authoring an accepted journal article or high-quality conference paper. The student must be the first author on this paper and the research advisor must also be an author on this paper to be used for Candidacy. The publication should reflect the work related to the student's PhD research. Candidacy is normally attempted at the completion of required coursework and must be passed before registering for doctoral dissertation hours (EEL 7980). Continuous enrollment in at least 3 hours of doctoral dissertation hours is required once a student starts taking dissertation credits.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours.

- Completion of all required formal coursework, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Signed and well-formed Doctoral Committee Candidacy Status form and associated paperwork (dissertation advisory committee and program of study, etc.) must be submitted to the Electrical and Computer Engineering Graduate Office for processing on or before **the last day to defend Dissertation during the semester prior to** enrolling in dissertation credits.

Dissertation Proposal Exam

After passing the candidacy examination, the student will write a dissertation proposal and present it to the dissertation advisory committee for approval. The proposal must include a description of the research performed to date and the research planned to be completed for the dissertation. The presentation of a written dissertation proposal must be deemed as passing requirements by the majority of the dissertation committee.

Equipment Fee

Students in the Electrical Engineering PhD program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Bachelor's or Master's degree in Electrical Engineering or a closely related discipline.
- Résumé.
- Statement about educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research programs.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Application Deadlines

Electrical Engineering PhD	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kalpathy Sundaram PhD

Professor

eecpe-grad@eecs.ucf.edu

Telephone: 407-823-5326

HEC 439B

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Environmental Engineering PhD

College: Engineering and Computer Science	Degree: PhD
Department: Civil, Environmental, and Construction Engineering	Option: Dissertation
Program Websites: http://www.cece.ucf.edu/graduate/	
Graduate Program Handbook	

Program Description

The Environmental Engineering PhD program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments preparing students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

Areas of study include drinking water treatment, astute treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program's mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

The program offers an intensive, individually tailored research program suitable for the development of an academic or similar research-oriented career. Graduates of the program will have technical knowledge in critical areas of

environmental engineering, critical thinking skills, formed and maintained partnerships with industry, government agencies, and professional organizations, and have developed an awareness of the changing environmental needs of society and the global environment.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-PhD.pdf>.

Curriculum

The Environmental Engineering PhD program is research oriented and requires a minimum of 72 credit hours beyond the bachelor's degree. Thirty of the 72 credit hours can be met with either a nonthesis or thesis MS in Environmental Engineering. This leaves 42 credit hours of which 18 credit hours must be Dissertation and a minimum of 15 credit hours must be formal course work. A maximum of 9 credit hours of Doctoral Research can be used in the doctoral program, which could be replaced by additional formal coursework.

For students not having an MS degree who directly enter the PhD program (BS to PhD), there will be a minimum of 45 credit hours formal coursework (i.e., 30 credit hours identical to the coursework for a nonthesis MS in Environmental Engineering plus a minimum of 15 credit hours course work past the MS). However, unlike MS students, BS to PhD students will be required to take only 4 of the 5 required courses from the nonthesis MS in Environmental Engineering requirements. In addition, these students can enroll for Doctoral Research credit hours during or after their first semester in the program. The 27 credit hours required in addition to the 45 credit hours coursework will be 18 credit hours in Dissertation Research, and a maximum of 9 credit hours in Doctoral Research. Up to 9 credit hours of Doctoral Research can be replaced by additional formal coursework subject to the approval of the PhD adviser and the advisory committee.

For both MS to PhD and BS to PhD students, the program of study must be developed with an advisory committee and meet with departmental approval at the beginning of the PhD program, at which time transfer credit will be evaluated on a course-by-course basis.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree 42 Credit Hours Minimum beyond the Master's Degree

Required Courses: 12 Credit Hours

All students completing the PhD program must take one course each from 4 of the 5 technical areas listed below for a total of 12 credit hours.

Water Process Engineering

- ENV 6015 - Physical/Chemical Treatment Systems in Environmental Engineering **3 Credit Hours**

Wastewater Process Engineering

- ENV 6016 - Biological Treatment Systems in Environmental Engineering **3 Credit Hours**

Waste Treatment/Water Treatment/Industrial Treatment

- ENV 6558 - Industrial Waste Treatment **3 Credit Hours**
- ENV 5410 - Water Treatment **3 Credit Hours**

- EES 5318 - Industrial Ecology **3 Credit Hours**

Air Quality Modeling/Air Pollution Control

- ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling **3 Credit Hours**
- ENV 6126 - Design of Air Pollution Controls **3 Credit Hours**

Water Resources

- Any CWR course at the 5000 or 6000 level **3 Credit Hours**
- ENV 5636 - Environmental and Water Resources Systems Analysis **3 Credit Hours**
- ENV 6047 - Environmental Informatics and Remote Sensing **3 Credit Hours**

Elective Courses: 42 Credit Hours

- To be approved by a faculty adviser and the graduate coordinator
- At least 27 credit hours of formal course work is required, exclusive of research and independent study. For students entering the program with a completed master's degree, at least 15 of the 27 credit hours (exclusive of independent study and research) must be taken at UCF after the master's program, from approved formal courses. For students entering the program without a master's degree in Environmental Engineering or a closely related discipline, at least 45 credit hours of formal course work are required.
- Doctoral Research (XXX 7919) - 9 credit hours maximum (more than 9 research credit hours can be taken, but only a maximum of 9 credit hours will be counted toward the program of study).
- Independent Study (XXX 6908) - 3 credit hours maximum
- No more than a total of 12 credit hours of doctoral research plus independent study will be included in a program of study.
- Directed Research (XXX 6918) is not permitted in a PhD program of Study.

Students can choose among the following courses with the consent of the academic adviser. Students that have no MS degree should complete the core courses for the MS degree in Environmental Engineering or Environmental Engineering Sciences. In addition, all elective courses will be 5000 or 6000 level courses.

In addition, elective courses can be chosen from any of the following disciplines:

Engineering: any 5000 or 6000 level course from any Engineering discipline. Typical electives come from Environmental Engineering (ENV courses), Water Resources Engineering (CWR courses), Civil Engineering, Construction Engineering, and Industrial Engineering.

Non-Engineering: Statistics, Molecular Biology, Microbiology, Biochemistry, Organic Chemistry, General or Inorganic Chemistry, Biology, Math, and Physics.

Suggested elective courses include:

- EES 5318 - Industrial Ecology **3 Credit Hours**
- ENV 5410 - Water Treatment **3 Credit Hours**
- ENV 5505 - Sludge Management Operations in Environmental Engineering **3 Credit Hours**
- ENV 5517 - Engineering Chemical and Biological Processes **3 Credit Hours**
- ENV 5636 - Environmental and Water Resources Systems Analysis **3 Credit Hours**
- ENV 6015 - Physical/Chemical Treatment Systems in Environmental Engineering **3 Credit Hours**
- ENV 6016 - Biological Treatment Systems in Environmental Engineering **3 Credit Hours**

- ENV 6046 - Membrane Mass Transfer **3 Credit Hours**
- ENV 6030 - Environmental Biotechnology **3 Credit Hours**
- ENV 6047 - Environmental Informatics and Remote Sensing **3 Credit Hours**
- ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling **3 Credit Hours**
- ENV 6126 - Design of Air Pollution Controls **3 Credit Hours**
- ENV 6519 - Aquatic Chemical Processes **3 Credit Hours**
- ENV 6558 - Industrial Waste Treatment **3 Credit Hours**

Dissertation: 18 Credit Hours

- ENV 7980 **18 Credit Hours** minimum

Examinations

Students must pass three examinations. The first is the PhD qualifying examination. This examination must be taken within the first year of admission into the PhD program. It may be attempted no more than twice. In addition to the qualifying examination, students must pass the candidacy examination and the dissertation defense examination. The candidacy examination is normally taken near the end of the course work and consists of a written and oral presentation of a research proposal, and may include additional written or oral questioning by the committee. A copy of the written examination will be kept as part of the student's official record. The dissertation defense examination is an oral examination taken as defense of the written dissertation.

The College of Engineering and Computer Science requires that all dissertation defense announcements be approved by the student's adviser and posted on the college's website and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours.

- Completion of all but 6 hours, or less, of course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Equipment Fee

Full-time students in the Environmental Engineering PhD program pay \$16 per semester for equipment used in the laboratories. Part-time students pay \$8 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A bachelor's and/or master's degree in Environmental Engineering or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Final articulation requirements will be determined by the department after students have been admitted and after discussions with their advisers.

Application Deadlines

Environmental Engineering PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Andrew Randall PhD PE

Professor

andrew.randall@ucf.edu

Telephone: 407-823-6429

Engineering II, 211-L

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-5692

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Exercise Physiology, Education PhD

College: Community Innovation and Education and Health Professions and Sciences	Degree: PhD
Department: Learning Sciences and Educational Research and School of Kinesiology and Physical Therapy	Option: Dissertation
Program Website: https://healthprofessions.ucf.edu/kpt/	

Track Description

The Exercise Physiology track in the Education PhD program provides advanced studies in the area of exercise physiology and wellness, sport and exercise science.

Students interested in the doctoral program might come from the biological and health-related professions, exercise science, physical education, or athletic training.

Curriculum

The Exercise Physiology track in the Education PhD program requires a minimum of 66 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 27 credit hours of specialization courses, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 66 Credit Hours Minimum beyond the Master's Degree

Required Courses: 51 Credit Hours

Core Courses: 24 Credit Hours

- IDS 7501 - Issues and Research in Education **3 Credit Hours**
- IDS 7500 - Seminar in Educational Research **1-3 Credit Hours**
(variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7403 - Quantitative Foundations of Educational Research **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- IDS 7502 - Case Studies in Research Design **3 Credit Hours** or one of the approved research electives from group A:
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours** or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**

- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Group B

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours**
(Communication Sciences Track students only)

Specialization Courses: 27 Credit Hours

Students select nine specialization courses from the following list.

- PET 6357C - Environmental Perturbation and Human Performance **3 Credit Hours**
- PET 6363 - Dietary and Nutritional Supplementation for Athletic Performance **3 Credit Hours**
- PET 6366 - Exercise, Nutrition and Weight Control **3 Credit Hours**
- PET 6376 - Sport Nutrition **3 Credit Hours**
- PET 6381 - Physiology of Neuromuscular Mechanisms **3 Credit Hours**
- PET 6388 - Cardiovascular Physiology **3 Credit Hours**
- PET 6389 - Exercise Physiology II **3 Credit Hours**
- PET 6395 - Program Design in Strength and Conditioning **3 Credit Hours**
- PET 6515 - Assessment and Evaluation in Kinesiology **3 Credit Hours**
- PET 6521 - Exercise Physiology Instrumentation **3 Credit Hours**
- PET 6690 - Exercise Prescription for Special Populations **3 Credit Hours**
- PET 7365 - Cardiovascular Dynamics During Exercise **3 Credit Hours**
- PET 7368 - Regulation of Metabolism During Exercise **3 Credit Hours**
- PET 7387 - Exercise Endocrinology **3 Credit Hours**

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- APK 7980 - Dissertation Research **15 Credit Hours** minimum

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field and master's level competency in educational research and statistics.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé/vita reflecting relevant experience.
- Writing sample.

Application Deadlines

Exercise Physiology	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

David Fukuda PhD

Associate Professor

david.fukuda@ucf.edu

Telephone: 407-823-0442

ED 320R

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Hospitality Management, PhD

College: Hospitality Management	Degree: PhD
Program Websites: http://www.hospitality.ucf.edu/	Option: Dissertation
Graduate Program Handbook	

Program Description

The PhD in Hospitality Management prepares individuals for teaching and research-based careers in academia or as practitioner researchers and field consultants in hospitality and tourism enterprises.

Curriculum

The doctoral program requires 58 credit hours of courses beyond the master's degree, including 16 credit hours of core courses, 27 credit hours of specialization courses, and 15 credit hours of Dissertation. An additional 9 credit hours are required in the Candidacy term for those students who are self-funded.

Total Credit Hours Required: 58 Credit Hours Minimum beyond the Master's Degree

Required Courses: 43 Credit Hours

Core: 16 Credit Hours

- HMG 7587 - Foundations in Hospitality and Tourism Research **3 Credit Hours**
- HMG 7589 - Advanced Research Methods in Hospitality and Tourism **3 Credit Hours**
- HMG 7588 - Research Seminar in Hospitality and Tourism **1 Credit Hours**

- PAF 7802 - Advanced Research Methodology for Public Affairs **3 Credit Hours** or
- HMG 6586 - Research Methods in Hospitality and Tourism **3 Credit Hours**

- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- HMG 7295 - Theories in Hospitality and Tourism **3 Credit Hours**

Specialization: 27 Credit Hours

At least 6 credit hours should be from HMG 7XXX level courses. Course selection should be based on the student's area of interest in consultation with the major adviser and approved by the PhD Program Coordinator.

Strategies and Tactics

Select a minimum of two courses from the following list:

- HMG 7258 - Strategies and Tactics: Lodging **3 Credit Hours**
- HMG 7546 - Strategies and Tactics: Guest Service Management **3 Credit Hours**
- HMG 7715 - Strategies and Tactics: Travel and Tourism **3 Credit Hours**
- HMG 7876 - Strategies and Tactics: Foodservice **3 Credit Hours**

Research Electives

Select a minimum of three Research Electives from the following list:

- HMG 6918 - Directed Research **3 Credit Hours**
- PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods **3 Credit Hours**
- PAF 7820 - Qualitative Methods for Public Affairs **3 Credit Hours**
- EDF 7475 - Qualitative Research in Education **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**

HMG 6000 Level or Greater Courses

Select the remainder of your minimum 27 credit hours from any HMG 6000 level or greater courses or approved 6000/7000 level courses from other UCF colleges.

- FSS 6365 - Management of Food Service Operations **3 Credit Hours**
- HMG 6227 - Advanced Training and Development in the Hospitality Industry **3 Credit Hours**
- HMG 6228 - Critical Issues in Hospitality Human Resources **3 Credit Hours**
- HMG 6245 - Managing Hospitality and Guest Services Organizations **3 Credit Hours**

- HMG 6251 - The Management of Lodging Operations **3 Credit Hours**
- HMG 6466 - Applied Revenue Management Techniques in Hospitality **3 Credit Hours**
- HMG 6556 - Digital Marketing and Big Data Management for Hospitality and Tourism **3 Credit Hours**
- HMG 6585 - Data Analysis in Hospitality and Tourism Research **3 Credit Hours**
- HMG 6267 - Case Studies in Restaurant Management **3 Credit Hours**
- HMG 6296 - Hospitality/Tourism Strategic Issues **3 Credit Hours**
- HMG 6347 - Contemporary Issues in the Resort Industry **3 Credit Hours**
- HMG 6446 - Hospitality/Tourism Information Technology **3 Credit Hours**
- HMG 6565 - Social Media in Hospitality and Tourism **3 Credit Hours**
- HMG 6476 - Feasibility Studies for the Hospitality/Tourism Enterprises **3 Credit Hours**
- HMG 6477 - Financial Analysis of Hospitality Enterprises **3 Credit Hours**
- HMG 6529 - Contemporary Issues in Resort Sales Management **3 Credit Hours**
- HMG 6528 - Convention and Conference Sales and Services **3 Credit Hours**
- HMG 6533 - Hospitality/Tourism Industry Brand Management **3 Credit Hours**
- HMG 6566 - Principles of Destination Marketing and Management **3 Credit Hours**
- HMG 6596 - Strategic Marketing in Hospitality and Tourism **3 Credit Hours**
- HMG 6710 - International Tourism Management **3 Credit Hours**
- HMG 6738 - Tourism Industry Analysis **3 Credit Hours**
- HMG 6797 - Event Administration **3 Credit Hours**
- HMG 6756 - Mega-Events **3 Credit Hours**

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

- HMG 7980 - Dissertation Research **15 Credit Hours** (minimum)

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser in collaboration with the PhD Program Coordinator and Rosen College Examination Committee. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination form.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved Graduate Plan of Study.
- Submittal of an approved research proposal.

Candidacy Examinations

All PhD candidates will be required to complete two examinations. The written portion of the Candidacy Exam consists of two days, each with a different emphasis. Day one encompasses "Area I" of your GPS (Graduate Plan of Study), and

it emphasizes research methodology, statistics and theory. Day two will have a broader emphasis and encompass "Area II" course content in your GPS. The latter will further include questions related to your dissertation topic. Upon completion of the written portion of the examination students are required to pass a one-hour oral examination with questions arising from Area I, Area II and your dissertation.

Independent Learning

The dissertation satisfies the independent learning requirement.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements , applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Goal statement (This is your opportunity to outline in 500 words why you wish to come to the program, what you think you will contribute to the program and how you feel the program will enhance you both personally and professionally).
- Résumé
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Hospitality Management PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Murat Hancer PhD

Professor, PhD Program Coordinator
Murat.Hancer@ucf.edu
Telephone: 407-903-8043
RCHM 232

Kathy Henry MPA

Assistant Director, Graduate Programs Academic Advisor
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102C

Ricarya Jackson

Administrative Assistant, Graduate Programs
Ricarya.Jackson@ucf.edu
Telephone: 407-903-8024
RCHM 102C

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Human Factors and Cognitive Psychology PhD

College: Sciences	Degree: PhD
Department: Psychology	Option: Dissertation
Program Websites: https://sciences.ucf.edu/psychology/graduate/ph-d-human-factors-and-cognitive-psychology/	
Graduate Program Handbook	

Program Description

A PhD degree track in Human Factors and Cognitive (HFC) Psychology, accredited by the Human Factors and Ergonomics Society, is offered to those with a baccalaureate or master's degree in psychology or an allied area. The track seeks to develop the capacity to design, conduct, and apply human factors and cognitive psychology research in a variety of professional and academic settings. It is patterned on the scientist-practitioner model of the American Psychological Association (APA) and adheres to guidelines established by the committee for Education and Training of APA's Division 21 (Applied Experimental and Engineering Psychology).

The PhD degree track in HFC Psychology seeks to develop the capacity to design, conduct, and apply applied experimental and human factors research in a variety of professional settings. Students receive training in the content and techniques of human factors psychology-including statistical and quantitative procedures, experimental design, survey methods, computer techniques, and other research methodologies. Students are encouraged to also select a concentration area, which they complete as part of their required elective coursework. Examples include human-computer interaction, human-machine-environment interface, human performance, human factors in simulation and training, cognitive neuroscience, or other areas of interest with advisor authorization. In addition to the course requirements, students must demonstrate their knowledge and skills by completing the five competency domains. Finally, a dissertation representing a significant research contribution to the field is required.

We continue to improve the curriculum to adapt to the changing professional and societal demands and to offer the best graduate education and training in human factors and cognitive psychology. In particular, we have modified our curriculum and program requirements and introduced project and outcome-based competency assessments. These changes have helped to focus students' attention on their respective programs of research while simultaneously developing the knowledge and skill sets required to be Ph.D. scientist/practitioners in human factors and cognitive psychology.

Students and graduates of the HFC program have served the local community by improving the enjoyment, comfort, and safety of Walt Disney World entertainment rides, serving as an educational professional at several local colleges and universities and consulting at several government agencies and private industries. To date, our doctoral program continues to be the largest and one of the most prominent in the nation. Both faculty and students have received numerous honors and awards from the Human Factors and Ergonomics Society.

Curriculum

For students who enter with a baccalaureate degree, the Human Factors and Cognitive track in the Psychology PhD program requires a minimum of 75 credit hours, and students may earn the MA degree en route to the PhD by completing all of the requirements of the PhD except for dissertation. For students who already have a master's degree in Psychology, the MA is not available. Students who enter with a master's degree in psychology may be allowed to waive up to 30 hours of graduate course work to the doctoral program with approval of the program faculty, and will also be required to complete a minimum of 60 semester hours at UCF.

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

For students who already have a master's degree in psychology, the number of credit hours will depend on the number of credit hours transferred or waived. However, all students in the program must complete 15 credit hours of dissertation.

Required Courses: 42 Credit Hours

Students are required to achieve a minimum grade of B- in each core curriculum course. Students who take PSB 6328 and PSB 6348 must achieve a B- in *both* courses. If students earn a C+ or lower in any core curriculum course, they will be placed on academic probation and they may be required to retake the course or to complete remedial work required by the HFC committee in consultation with the student's adviser. If students earn a C+ or lower in two or more core curriculum courses they will be subject to immediate review by the Program Committee and may be dismissed from the program. It is anticipated that in most cases earning a C+ or lower in two core curriculum courses will result in dismissal from the program.

- EXP 5256 - Human Factors I **3 Credit Hours**
- EXP 6257 - Human Factors II **3 Credit Hours**
- EXP 6258 - Human Factors III **3 Credit Hours**
- EXP 5208 - Sensation and Perception **3 Credit Hours**
- EXP 6116 - Visual Performance **3 Credit Hours**
- EXP 6255 - Human Performance **3 Credit Hours**
- EXP 6506 - Human Cognition and Learning **3 Credit Hours**
- EXP 6541 - Advanced Human Computer Interaction **3 Credit Hours**
- INP 7089 - Human Factors Professional Issues **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**
- PSY 7217C - Advanced Research Methodology I **4 Credit Hours**
- PSY 7218C - Advanced Research Methodology II **4 Credit Hours**
- PSY 7219C - Advanced Research Methodology III **4 Credit Hours**

Elective Courses: 18 Credit Hours

Students should choose electives in concentrated course groupings: for example, human-machine systems, performance measurement and evaluation, simulation and training, or quantitative methods. Other elective course groupings may be developed for the student's specific interests. Students may choose to satisfy these elective requirements by taking courses outside the Psychology Department that can serve their multidisciplinary needs. Courses outside of the Department that have already been approved as electives are contained in the list below. A student who wishes to use courses that are not included on this list may seek approval by petitioning the HFC Faculty Committee through their academic adviser. Students may take up to 12 credit hours of Directed Research, however, it is highly recommended that they take elective courses that are related to their discipline from other graduate programs or departments at UCF. Electives may include but are not limited to the following courses:

- DEP 5057 - Developmental Psychology **3 Credit Hours** (Spring Only)
- DIG 6432 - Transmedia Story Creation **3 Credit Hours** (Fall, Summer)
- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 5255C - Interactive Simulation **3 Credit Hours** (Spring Only)
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EME 6613 - Instructional System Design **3 Credit Hours** (Occasional)
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- EXP 5254 - Human Factors and Aging **3 Credit Hours** (Fall Only)
- EXP 6939 - Teaching Seminar **3 Credit Hours**
- IDS 6916 - Simulation Research Methods and Practicum **3 Credit Hours**
- IDS 6146 - Modeling and Simulation Systems **3 Credit Hours**

- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours** (Fall only). May be substituted by:
 - DIG 5875C - Introduction to Modeling and Simulation **3 Credit Hours**

- IDS 6148 - Human Systems Integration for Modeling and Simulation **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**
- INP 7310 - Organizational Psychology I **3 Credit Hours**
- PSB 6328 - Psychophysiology **3 Credit Hours**
- PSB 6348 - The Neuroanatomical Basis of Psychological Function **3 Credit Hours**
- PSB 6352 - Neuroimaging Design and Analysis Methods **3 Credit Hours**
- PSB 7349 - Advanced Topics in Cognitive Neuroscience **3 Credit Hours**
- SOP 5059 - Advanced Social Psychology **3 Credit Hours**

Concentration in Cognitive Neuroscience

The Human Factors and Cognitive Psychology PhD Program offers students opportunities for both lab and course-based training in Cognitive Neuroscience. To support cognitive neuroscience research training, the Department of Psychology maintains state-of-the-art research facilities, including space and equipment for electroencephalography/event-related potentials (EEG/ERP), functional near-infrared spectroscopy (fNIRS), eye tracking, pupillometry, heart-rate variability, respiration, and electrodermal activity, as well as external collaborations to support functional magnetic resonance imaging (fMRI). In addition, the HFC Program also offers a course-based concentration in Cognitive Neuroscience with the following curriculum:

A student who elects to complete the concentration must achieve a minimum grade of B- in each course.

- PSB 6328 - Psychophysiology **3 Credit Hours**
- PSB 6348 - The Neuroanatomical Basis of Psychological Function **3 Credit Hours**
- PSB 6352 - Neuroimaging Design and Analysis Methods **3 Credit Hours**
- PSB 7349 - Advanced Topics in Cognitive Neuroscience **3 Credit Hours**
- Select 6 credit hours of elective courses from the list above.

Note:

Admission to these courses is not guaranteed, but is contingent on the decision of the department, college, and instructor of record for the course.

Dissertation: 15 Credit Hours

- PSY 7980 Doctoral Dissertation **15 Credit Hours**

Competency Requirements

Purpose

The purpose of the competency requirements is to develop and assess the competency of professional behaviors in doctoral-level graduate students in the Human Factors & Cognitive Psychology program that are consistent with the program's professional training goals. These goals include but are not limited to the development and demonstration of skills and abilities that enable graduating students in (1) research; and (2) competently serve as innovative teachers/instructors in colleges and universities, and as presenters at local, regional, national, and international professional conferences.

Competency requirements are detailed below and involve the completion of five professional activities to satisfy two competency domains.

Domain 1: Research

1. Published/ Publishable Article (1st author)
 - Deadline: End of sixth semester in Program (excluding summers)
2. First Year Project
 - Deadlines:
 1. Manuscript: Two weeks after the start date of the first semester of the second year
 2. Presentation: Approximately two weeks after submission of the manuscript
3. Second Year Project
 - Deadlines:
 1. Manuscript: Two weeks after the start date of the first semester of the third year in the program.

2. Presentation: By the end of the spring semester of the third year in the program.
4. Literature Review
 - Deadline: Prior to the start of the second semester of the third year in the program.

Domain 2: Teaching/Professional Presentations

- Undergraduate Instructor Experience, or
- Professional Presentations

Deadline: End of sixth semester in Program (excluding summers)

Requirements, Rationale and Objectives

Successful completion of the competency requirements reflects the Program's desire to ensure overall breadth of training in the field of Human Factors & Cognitive psychology that are complemented by individually tailored professional training experiences and competencies consistent with a student's professional career goals. The two professional domains outlined above (and detailed in the subsequent sections) are consistent with this intent. Students are required to complete all domains as well as required coursework (including electives) to be eligible for doctoral candidacy. The student must meet all domain requirements during his or her enrollment in the UCF HFC Ph.D. program. Work completed the program will not be considered for domain completion.

Research Domain

1. Published/Publishable Article

Students are required to submit an article to a refereed journal and receive feedback on the manuscript. Students must be first or solo author on empirical research that is either published or publishable in a peer-reviewed journal. If the student does not receive word on journal submission by 8 weeks from the date of submission **or** if the article is rejected, the faculty committee will review the student's work and determine if it fulfills the requirement. Note that desk rejections do not satisfy this requirement. The 8-week time period is from the date of submission to a journal that does not desk reject the manuscript.

Fulfillment of this component is intended to (a) complement the student's graduate level coursework in research methods, design, statistics, and on-going research practica, (b) hone conceptual and professional writing skills related to publishing findings in scholarly journals, (c) encourage students to submit completed scholarly works to journals for peer review, and (d) provide students with the opportunity to receive and react to comments offered by professional journal reviewers. The student must complete research and article while enrolled in the HFC Program. The student must report receipt of the peer review and complete and submit all forms for inclusion in their portfolio within thirty (30) days of receiving feedback from the journal. The student must also inform his/her advisor, the Program Assistant, and the Program Director each time an activity is added to his/her Competency portfolio. Failure to meet the thirty-day deadline will result in disqualification of the manuscript for satisfying this competency. The manuscript and editorial response may be reviewed by the HFC committee to determine whether the student has satisfied this requirement.

2. First Year Project

In the first year, all students must do a laboratory research project (the First Year Project) that includes at least one empirical study. The project must be approved and will be supervised by the student's advisor. Two weeks after the start date of the first semester of the second year (if this date falls on a weekend or academic holiday the due date will be the first day following on which University classes are in session), the student must provide a written paper describing their work structured in accordance with APA guidelines and including all sections necessary for a typical

journal submission in their field. It should not exceed 20 pages of text (exclusive of References, Tables, and Figures). Approval of the paper is required by two members of the Human Factors and Cognitive Psychology program faculty (one of whom will be the student's advisor). Additionally, the student must undergo a 20-minute oral examination based on the written report. This examination will be in the format of an academic talk delivered to area faculty and students that will occur approximately 2 weeks following submission of the First Year Paper. Satisfactory performance on both the paper and oral examination is required to maintain good standing in the program. Cases in which performance is deemed unsatisfactory will result in academic probation with a retention plan for the student, who must successfully complete this plan to maintain status in the program. However, if a student already on academic probation delivers a first-year project (either paper or talk) that is deemed unsatisfactory then they may be removed from the program at the discretion of the program director. Failure to complete the first-year project is grounds for dismissal from the program.

3. Second-Year Project

In the second year, all students must do a laboratory research project (the Second Year Project) that includes at least one empirical study. The project must be approved and will be supervised by the student's advisor. Two weeks after the start date of the first semester of the third year in the program (if this date falls on a weekend or academic holiday the due date will be the first day following on which University classes are in session), the student must provide a written paper describing their work structured in accordance with APA guidelines and including all sections necessary for a typical journal submission in their field. It should not exceed 20 pages of text (exclusive of References, Tables, and Figures). Approval of the paper is required by two members of the Human Factors and Cognitive Psychology program faculty (one of whom will be the student's advisor). Additionally, the student must undergo a one-hour oral examination based on the written report. This examination will be in the format of an academic talk delivered to area faculty and students that will occur in an HFC Program Seminar (typically held on Friday afternoons) during the Fall or Spring Semester of the third year in the program. The specific date on which the student presents their work will depend on the seminar schedule for those two semesters. Satisfactory performance on both the paper and oral examination is required to maintain good standing in the program. Cases in which performance is deemed unsatisfactory will result in academic probation with a retention plan for the student, who must successfully complete this plan to maintain status in the program. However, if a student already on academic probation delivers a first-year project (either paper or talk) that is deemed unsatisfactory then they may be removed from the program at the discretion of the program director. Failure to complete the second-year project is grounds for dismissal from the program.

4. Literature Review Paper

Students will fulfill the Literature Review Paper requirement by completing a sole-authored review paper of literature in their area of research interest. The paper will synthesize research of that selected area and derive and include proposals of novel hypotheses, models, or frameworks that can be used to formalize the selected literature to advance future research.

Fulfilling this requirement is intended to a) develop students' expertise in their research area, b) refine students' abilities to capture current understanding of a research topic through scholarly writing, c) encourage students to develop well-supported and testable hypotheses that can advance research in their field, and d) provide students an opportunity to receive feedback from all program faculty.

Students can focus this review on their intended dissertation topic and use said review as a basis for their dissertation introduction. This is not a requirement. Prior to beginning the review, students must document approval of the topic from their advisor. They must also obtain commitment from a second reader (from within the HFC faculty) to assess the completed review. The second reader cannot be the same second reader selected for the student's First Year Research Project. Prior to the start of the second semester of the third year, the student must submit the completed review to their advisor and second reader. Any changes required by readers must be integrated and the revision completed to the readers' satisfaction in order for the student to fulfill this requirement.

The review paper must be formatted in accordance with APA guidelines. Students may refer to papers published in *Annual Review of Psychology* for guidelines on the length, composition, and level of support included in a well-composed review.

Teaching/Professional Presentations Domain

Fulfillment of this domain requires first that all students complete the UCF Graduate Studies 2-day GTA Training session. In addition, students must either serve as instructor of record for an undergraduate course at UCF or complete formal presentations. Students are free to select either option in consultation with their faculty advisors. If the student opts for instructor of record of an undergraduate course, the student must do the following: Submit a syllabus, lecture notes, examinations, two course evaluations (mid and end-of-semester administered online by UCF, distributed by Psychology), as well as written feedback from the student's faculty advisor or members of the student's competency committee who directly observed or viewed videotapes of at least three lectures. If the student opts to conduct professional presentations, that student must complete at least two presentations (see table below) in which he or she is an author and is also the primary presenter. Written feedback from the student's faculty advisor or members of the student's competency committee who directly observed or viewed videotapes of the five lectures must be available for review. Professional presentations do not include poster presentations or classroom presentations (e.g., guest lecturer).

Fulfillment of the traditional **Teaching** domain is intended to provide students with (a) additional training and opportunities to develop instructional skills consistent with university level instruction, (b) the opportunity to receive and react to constructive comments concerning their developing instructional skills, (c) additional opportunities to learn and develop expertise in using newly developed technology and methods relevant to university level instruction (e.g., active learning groups, computer assisted technology, software programs that facilitate and complement traditional instructional activities), and (d) additional expertise in select areas of psychology to prepare them for future professional instructional opportunities following graduation from the University. The **alternative option** under this domain is intended to encourage students to engage in research studies beyond those required by the program and to present their findings at professional meetings. Fulfillment of this requirement is expected to promote research involvement throughout graduate training and promote student competency in (a) developing written submissions of completed empirical works, (b) oral presentations skills with professional audiences, (c) learning and using innovative technology relevant to paper/poster presentations, and (d) receiving and reacting to constructive comments offered by professionals.

Students satisfy this domain by accumulating 4 points for teaching and/or professional presentation. For presentations, the student must be the presenter. Points are assigned as follows:

- One paper presentation (lecture) at National/International Conference (2 points)
- One poster presentation at National/International Conference (1 point)
- One paper presentation at Regional Conference (1 point)
- One poster presentation at Regional Conference (1/2 point)
- One paper or poster presentation at UCF Graduate Research Forum (1/2 point)
- Teaching Assistant for a research methods laboratory section (limit of one section per semester) (1 point)
- HFC Program Colloquium/Brown-bag presentation (1 point)
- Teaching a course as instructor of record (4 points)

The student must report each activity and complete and submit all forms for inclusion in their portfolio within thirty (30) days of the presentation or of the end of the semester in which the teaching activity occurred. The student must also inform his/her adviser, the Program Assistant, and the Program Director each time an activity is added to his/her Competency portfolio. Failure to meet the thirty-day deadline will result in disqualification of the activity for satisfying this competency. The activity may be reviewed by the HFC committee to determine whether the student has satisfied this requirement.

Procedures and Time Guidelines for Completing the Competency Requirements

Students admitted to the Ph.D. Human Factors and Cognitive Psychology Program will complete competency domains (Research and Teaching/Professional Presentations) to fulfill the professional competency requirements. Students are strongly encouraged to discuss their preferences and planned course for fulfilling these requirements with their academic advisors. Students should consult with the Program Assistant within the first two weeks of each semester to verify that their dossier is up-to-date. Students admitted to the Ph.D. Human Factors and Cognitive Psychology Program will not be able to fulfill the requirements with previous work completed at any institution previous to their enrollment in the HFC Ph.D. program at the University of Central Florida (UCF).

Successful completion of the competency criteria must be completed before proposing the dissertation. The deadlines for completion of each competency are indicated in the Table 1. Each student's competency evaluation committee (which may be different from or identical to the dissertation committee) will determine whether the student has successfully fulfilled the competency requirements. Students are strongly encouraged to consult with their advisor in selecting a competency evaluation committee. One consideration in identifying potential committee members is the topic you select to meet the research domain. Students are responsible for submission of paperwork required to establish their committee, and they should consult with the Program Assistant to coordinate this process.

A written summary of the results and the student's Professional Activity Domain dossier will be forwarded to the Human Factors and Cognitive Psychology Program faculty for review and final approval. Students must submit their candidacy dossiers to the HFC Program faculty thirty (30) days prior to the beginning of the semester they anticipate becoming ABD. Failure to do so may result in delaying their advancement to candidacy. The Program faculty will then review each submitted dossier and the Director of the HFC Program will notify students in writing following the successful completion of the competency requirements. Students may formally propose their dissertation following written notification that they have completed the competency requirements.

Graduate Research: Doctoral Dissertation

Prior to enrollment into PSY 7980 Doctoral Dissertation, you must have passed candidacy and your dissertation committee must be reviewed and approved by the College of Sciences Associate Dean of Graduate Studies. This form can be found online at: <http://www.students.graduate.ucf.edu/files/>

Doctoral students engaging in dissertation research must be continuously enrolled in at least three hours of PSY 7980 every semester, including summers until they successfully defend and submit their dissertation to the University Thesis Editor.

Students will complete a minimum of 15 dissertation credit hours to meet the requirements for graduation.

Program Guidelines

All dissertations must involve the collection and analysis of original data. In exceptional circumstances, the use of an archival data set may be accepted through petition to the Graduate Committee. Oral presentation of the dissertation/dissertation prospectus must be made to the Dissertation/ Dissertation Committee for approval prior to initiating the research. The proposal generally includes the following: (a) title, (b) introduction to the problem, (c) comprehensive review of relevant literature, (d) establishing the uniqueness of the study, (e) theoretical background and hypotheses, (f) planned methodology, and (g) planned data analytic approach. Students are encouraged to write their dissertation proposal and dissertation using APA publication style(see APA Publication Manual, 6th edition) and to submit their completed research to relevant professional journals in their field of research. An appendix to the dissertation and/or dissertation may be used to include a more comprehensive literature review as determined by the student's committee members. After submitting a written proposal to the Dissertation/Dissertation Committee, the committee will meet with the student to discuss and evaluate the proposal. The approval of the proposal by a majority of committee members indicates that the committee members find the research to be original and appropriate, the literature review to be accurate and appropriately comprehensive, and the research design/planned data analytic strategy to be appropriate for the study.

After receiving committee approval for the thesis/dissertation, all students must receive approval from the University's Institutional Review Board (IRB) before data can be collected from human participants. Information about this process can be obtained from the Office of Research (www.research.ucf.edu). Failure to obtain this prior approval could jeopardize receipt of the student's degree.

Students should refer to the Graduate Studies [Thesis and Dissertation Webcourse](#), which describes UCF's formatting requirements for dissertations and outlines the steps graduate students must follow to submit their dissertations to Graduate Studies for archiving.

Dissertation Committee Composition

Doctoral students must establish a Dissertation Committee prior to the Candidacy Examination. The Committee will consist of a minimum of four members. At least three members must be qualified regular faculty members from the student's department at UCF, one of whom must serve as the chair of the committee. Of these, two must be members of the HFC Program. One member must be from either outside the student's department at UCF or outside the university. It is likely that the student's adviser will serve as the chair of the committee. Students are therefore strongly encouraged to consult with their adviser in identifying potential committee members.

All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the committee.

Dissertation Committee/Candidacy Status Form:

<http://www.students.graduate.ucf.edu/files/>

These approval forms should be completed and submitted to the HFC program assistant. Refer to the above website for detailed information.

Time Limitation and Deadlines for Dissertation Completion

A student has seven years from the date of admission to the doctoral program to complete the Ph.D. requirements. If the seven-year limit is exceeded, the candidacy examinations as well as coursework may need to be repeated.

Deadline, Dissertation Proposal Defense: End of eighth semester in Program (excluding summers)

Deadline, Dissertation Defense: End of eleventh semester in Program (excluding summers)

Master of Arts in Human Factors and Cognitive Psychology

Students enrolled in the Human Factors and Cognitive Psychology (HFC) PhD track may elect to earn a Master of Arts in HFC Psychology en route to their doctorate. This is a nonterminal master's degree available only to students in the HFC Psychology PhD track.

Additional Program Requirements

The MA in HFC Psychology requires a total of 60 credit hours beyond the bachelor's degree, as well as successful completion of the candidacy examination that qualifies the student for candidacy status within the HFC Psychology PhD. All HFC MA students take the same credit hours of core courses (less the 15 hour dissertation requirement) as

well as and 18 credit hours of electives. All required courses and selected electives are described in the PhD program of study above.

Note: The MA in HFC cannot be pursued if a master's in psychology or master's in modeling and simulation has already been awarded.

Independent Learning

Given the nature of graduate training and the pursuit of a doctoral degree, graduate students in Human Factors and Cognitive Psychology are required to become involved in independent learning throughout their graduate careers. The obtaining of the master's degree en route to the doctoral degree and the doctoral dissertation are examples of independent learning in which all graduate students participate. In addition, the comprehensive evaluation activities which include passing a research methods examination, teaching, research with publishing, and applied experience are required of all graduate students. Depending upon their career goals, other experiences such as directed readings or additional research projects may be undertaken by the students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Degree(s) should be in psychology or an allied area.
- Evidence of successful completion of undergraduate courses in statistics and general areas of experimental psychology.
- Résumé or Curriculum Vitae.
- A clear statement concerning the professional background, the type of research you wish to pursue as a graduate student, and the faculty member you believe would be best suited to serve as your major professor and mentor.
- Three letters of recommendation, with at least two furnished by college or university professors who are acquainted with the applicant.

Students are not normally admitted to the program without having completed a minimum amount of basic preparation in content related to experimental psychology. This preparation is judged on an individual basis but typically consists of at least 18 semester hours in the following:

- Courses in research methods, computer applications, and statistical methods.
- General experimental psychology courses, e.g., learning, physiological, perception, human learning, cognition, motivation, and measurement.

Applicants are evaluated for program prerequisites and advised of any need for additional preparation. Previous graduate work is evaluated for credit on a case-by-case basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree. Admission criteria are more stringent because of the competitiveness of the application process.

Application Deadlines

Human Factors & Cognitive Psychology	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Dec 1		
International Applicants	Dec 1	Dec 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

James Szalma PhD

Professor

james.szalma@ucf.edu

Telephone: 407-823-0920

PSY 351

Mikala Armioia

Mikala.Armioia@ucf.edu

Telephone: 407-823-3919

PSY 301E

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Industrial and Organizational Psychology PhD

College: Sciences	Degree: PhD
Department: Psychology	Option: Dissertation
Program Websites: http://psychology.cos.ucf.edu/graduate/ph-d-industrial-organizational/	
Graduate Program Handbook	

Program Description

The Industrial and Organizational Psychology track in the Psychology PhD program develops competency through research and training for the application of psychological principles to organizations. The degree is patterned on the scientist-practitioner model of the American Psychological Association (APA).

Program graduates are involved in many issues of critical importance to society, including fairness in the selection and treatment of employees, the creation of work environments that maximize the satisfaction and productivity of employees, and the study of technological influences on human performance.

The doctoral program provides students with training consistent with the scientist-practitioner model. A key assumption of the program is that every graduate must be a highly competent scientist who can contribute to both the science and practice of the discipline.

You can view our Industrial and Organizational Psychology Doctoral Program Handbook.

Curriculum

The Psychology PhD program in Industrial and Organizational Psychology (I/O) requires four to five years of full-time study beyond the baccalaureate and three to four years beyond the masters. The first few years are devoted to course work and the final year to the doctoral dissertation.

Students enrolled in the doctoral program who wish to earn a master's degree en route to the PhD must meet with their PhD adviser to plan a program of study. Students must complete 38 hours of graduate courses in the PhD program including Overview of Research in Industrial and Organizational Psychology, Industrial Psychology I, Organizational Psychology I, Professional Issues, Advanced Research Methods I and II, Advanced Social Psychology, and Psychometric Theory and Practice. Students must also complete a master's thesis and take a minimum of 6 credit hours of thesis in addition to the three elective courses below. Students entering the program with a master's degree may be approved for the nonthesis option. Students approved for the nonthesis option must take one Seminar in I/O Psychology, as well as the three elective courses below.

The I/O program requires a minimum of 75 credit hours of graduate study for students who enter the program with a baccalaureate degree. The nature of this study is determined by the I/O Area Program Committee.

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 48 Credit Hours

I/O Area Courses: 30 Credit Hours

- INP 6005 - Overview of Research in Industrial and Organizational Psychology **3 Credit Hours**
- INP 7214 - Industrial Psychology I **3 Credit Hours**
- INP 7310 - Organizational Psychology I **3 Credit Hours**
- INP 7081 - Professional Issues in Industrial and Organizational Psychology **3 Credit Hours**
- PSY 7315 - Psychometric Theory and Practice **3 Credit Hours**
- PSY 7217C - Advanced Research Methodology I **4 Credit Hours**
- PSY 7218C - Advanced Research Methodology II **4 Credit Hours**
- PSY 7219C - Advanced Research Methodology III **4 Credit Hours**
- INP 7071 - Research Methods in Industrial and Organizational Psychology **3 Credit Hours**

Psychology Field Courses: 6 Credit Hours

- SOP 5059 - Advanced Social Psychology **3 Credit Hours**

- EXP 6506 - Human Cognition and Learning **3 Credit Hours**

Research Courses: 6 Credit Hours

- INP 6933 - Seminar in Industrial and Organizational Psychology **3 Credit Hours** (taken twice) or
- INP 6971 - Thesis **3 Credit Hours** (taken twice)

Teaching Experience: 3 Credit Hours

All students must successfully teach a minimum of one undergraduate course as instructor of record prior to completing the I/O Psychology PhD degree.

Fulfillment of the Teaching requirement involves first taking the UCF College of Graduate Studies online and face-to-face GTA Training and EXP 6939 - Teaching Seminar. In addition, students need to serve as instructor of record for an undergraduate class at UCF. First-time students as instructor of record must submit a syllabus, lecture notes, examinations, two course evaluations (mid and end-of-semester), as well as written feedback from the student's major professor or members of the student's doctoral committee who directly observed or viewed videotapes of at least one lecture. Students will be required to administer student evaluations to their class mid-way through the semester so that they can receive feedback and make any necessary changes. The student's adviser will provide ratings of the student's performance as instructor of record at the end of the semester. If the adviser believes that the student has not performed satisfactorily, the adviser will determine remediation specific to the student's weakness (e.g., presentation skills). This remediation is not limited to, but may include, the following: serving as a guest lecturer for another instructor of record, taking a course or seminar, or teaching another semester, as determined by the student's adviser.

Fulfillment of the traditional Teaching requirement is intended to provide students with (a) additional training and opportunities to develop instructional skills consistent with university-level instruction, (b) the opportunity to receive and react to constructive comments concerning their developing instructional skills, (c) additional opportunities to learn and develop expertise in using newly developed technology and methods relevant to university-level instruction (e.g., active learning groups, computer-assisted technology, software programs that facilitate and complement traditional instructional activities), and (d) additional expertise in select areas of psychology to prepare them for future professional instructional opportunities following graduation from the university.

- EXP 6939 - Teaching Seminar **3 Credit Hours**

Elective Courses: 15 Credit Hours

Students must select four elective courses. These courses must be approved by the student's major adviser and the program director. The courses in this set are selected by the student in conjunction with his or her adviser. Note, however, that all courses in the set must be approved by the I/O Program Committee. The available elective courses include, but are not limited to, the following:

- MAN 6311 - Advanced Topics in Human Resources Management **3 Credit Hours**
- MAN 7207 - Organization Theory **3 Credit Hours**
- MAN 6385 - Strategic Human Resources Management **3 Credit Hours**
- INP 6605 - Training and Team Performance **3 Credit Hours**
- INP 6215 - Assessment Centers and Leadership **3 Credit Hours**
- INP 6058 - Job Analysis and Performance Appraisal **3 Credit Hours**
- INP 6318 - Recruitment, Placement and Selection **3 Credit Hours**
- INP 6933 - Seminar in Industrial and Organizational Psychology **3 Credit Hours** (may be taken up to 6 times for credit)

Dissertation: 15 Credit Hours

- PSY 7980 - Doctoral Dissertation **15 Credit Hours**

Candidacy Examination

After completing all required courses, students must pass all four sections of the Candidacy Examination. This is a written examination covering the content of the field and are graded by the I/O faculty. Candidacy Examinations may be taken a maximum of two times. Failure to pass the examination will result in the student being dismissed from the program.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Independent Learning

Given the nature of graduate training and the pursuit of a doctoral degree, graduate students in industrial and organizational psychology are expected to engage in independent learning throughout their graduate career. The completion of the doctoral dissertation is an example of independent learning in which all graduate students participate. In addition, a master's thesis or other research projects will be undertaken by the students from the first year on. To facilitate this process, students are expected to attend weekly program-sponsored research presentations during the fall and spring semesters and will be required to give at least three of these presentations prior to graduation.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Bachelor's or master's degree in Psychology or another allied area.
- Evidence of successful completion of undergraduate courses in statistics and in the general area of experimental psychology.
- Résumé.
- Statement outlining the student's academic and professional background and goals, along with career aspirations and goals.
- Three letters of recommendation, with at least two furnished by college or university professors who are acquainted with the applicant.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

It is preferred that applicants to the program either have a bachelor's degree with a major in psychology, or a baccalaureate degree and completion of undergraduate psychology courses in statistics and research methods; and four additional upper-division courses (12 credit hours) in the core content areas of psychology, for a minimum of 18 upper-division hours in psychology. It is up to the discretion of the I/O admissions committee whether a student accepted into the I/O Psychology PhD program, with a bachelor's degree other than psychology, will be required to take upper-division courses in the core content areas of psychology.

Applicants should note that admission to the PhD program is competitive, and successful applicants are expected to have an outstanding academic record. Admission to the program is based upon an overall assessment of the applicant's potential for completing it and for making significant contributions to the science and/or practice of I/O psychology. Admissions decisions are generally made by the second week in March and applicants are notified of their status shortly thereafter. Note that admission to the program is restricted to the fall semester of each academic year.

Application Deadlines

Industrial and Organizational Psychology PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Dec 1		
International Applicants	Dec 1	Dec 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Contact Info

Graduate Program

Steve Jex PhD

Professor
steve.jex@ucf.edu
Telephone: 407-823-3912
PSY 350

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
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Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Industrial Engineering PhD

College: Engineering and Computer Science	Degree: PhD
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Department: Industrial Engineering and Management Systems	Option: Dissertation
Program Websites: http://www.iems.ucf.edu/	
Graduate Program Handbook	

Program Description

The Industrial Engineering PhD program prepares students for extensive research and careers in academia, industry and government while providing a broad knowledge of industrial engineering.

The Doctor of Philosophy in Industrial Engineering is intended for a student with a bachelor's or master's degree in Industrial Engineering or a closely related discipline.

The PhD program is designed to produce highly skilled researchers with both broad knowledge of industrial engineering and in-depth knowledge of specialty fields for careers in academia, industry, and government. The program allows a candidate to thoroughly study some aspect of industrial engineering through faculty expertise in research areas such as management systems, systems simulation and modeling, operations research, quality systems engineering, interactive simulation and training systems, systems engineering, and human systems engineering, human-computer interaction, and ergonomics.

The Industrial Engineering program is structured to support the emergence of Central Florida as a national center of high technology as well as supporting the diverse service industries in the region and throughout the nation.

In the Industrial Engineering PhD program, students may be able to individually craft their programs of study and select their courses to focus in one or more of the following research areas for their dissertations:

Human Systems Engineering/Ergonomics:

As technology has become more sophisticated, the need to design for the human user has become more difficult, yet even more important. Human engineering and ergonomics assist in ensuring that as technology advances, the abilities, limitations, and needs of humans are considered in the system design. This not only supports the needs of the user, it also optimizes the efficiency and usability of the system designed. Traditionally, ergonomics has been associated with biomechanical issues and work measurement and performance issues in physical system design, as well as occupational and industrial safety. The broader focus of human engineering encompasses those issues as well as incorporating the reaction and effectiveness of human interaction with systems, both physical systems and virtual systems such as computer-based models.

Research in the Human Systems Engineering and Ergonomics area provides students with the necessary knowledge in human engineering and ergonomics to effectively design tasks, industrial systems, and work environments that maximize human performance, safety, and overall productivity.

Interactive Simulation and Training Systems:

The Interactive Simulation and Training Systems research within the Industrial Engineering MS program focuses on providing a fundamental understanding of significant topics relative to simulation systems and the requirements, design, development, and use of such systems for knowledge transfer in the technical environment. Courses in this area address the evolving and multiple discipline application of interactive simulation by providing a wealth of electives to support development of individual student interests and talents. In conjunction with UCF's Institute for Simulation and Training, industrial organizations involved in simulation in the Central Florida region, military organizations, and other

governmental organizations, ISTS research in the MS program provides exposure to both military and commercial interactive simulation and training systems.

The emphasis is on the application and development of interactive simulation and training systems to meet various requirements including, but not limited to: simulators, skill trainers, organizational learning systems, computer and web-based interactive simulation systems and other novel interactive simulation efforts. Courses in the interactive simulation and training systems area prepare individuals with an undergraduate degree in engineering, science, education, psychology, mathematics or other related disciplines for careers in simulation, focusing particularly on the interactive simulation and training systems industries.

Management Systems/Engineering management:

The Management Systems/Engineering Management research focuses on providing the knowledge for improving organizational systems. Engineering Management focuses on effective decision-making and successful project delivery in engineering and technological organizations. With technological advancements comes a new level of organizational complexity. As a result new knowledge is needed to help the technical organization understand how to improve. The Management Systems/Engineering Management studies and research in the Industrial Engineering program are intended for individuals of all engineering disciplines. Research and coursework focus on a systems view of engineering problems related to the management of complex industrial, military, government, and social systems.

Operations Research:

The Operations Research courses in the Industrial Engineering MS program uses mathematics and computer-based systems to model operational processes and decisions in order to develop and evaluate alternatives that will lead to gains in efficiency and effectiveness. Drawing on probability, statistics, simulation, optimization, and stochastic processes, Operations Research provides many of the analytic tools used by industrial engineers as well as by other analysts to improve processes, decision-making, and management by individuals and organizations. Research in this area is ideal for students who have an undergraduate degree in engineering, mathematics, or science. The knowledge in these courses build on an undergraduate Engineering, Mathematics, or Science degree to develop a strong modeling and analytical capability to improve processes and decision-making.

Quality Systems Engineering:

The Quality Systems Engineering research in the Industrial Engineering MS program focuses on providing the knowledge for improving product and process quality in manufacturing and service industries. Quality Systems Engineering provides both the quantitative tools for measuring quality and the managerial focus and organizational insight required to implement effective continuous improvement programs and incorporate the voice of the customer. The Quality Systems Engineering courses builds on an undergraduate degree in industrial engineering or a closely related discipline to provide the necessary knowledge to plan, control, and improve the product assurance function in government, military, service, or manufacturing organizations.

Simulation Modeling and Analysis:

The Simulation Modeling and Analysis research and studies in the Industrial Engineering MS program focus on providing a fundamental understanding of the functional and technical design requirements for simulation in manufacturing and service industries. Research in this area is based on a systems modeling paradigm and provides coding and development capability in the context of a broader systems framework. Significant exposure to design and analysis aspects is a core element of the track. The Simulation Modeling and Analysis research and coursework prepare individuals with an undergraduate degree in Engineering, Science, Mathematics, or a closely related discipline for careers in simulation, focusing particularly on using simulation as an analysis and design tool for the manufacturing and service industries.

Systems Engineering:

Intelligence is being infused into everyday systems, processes and infrastructure that enable physical goods to be developed, manufactured, bought and sold. These same systems also facilitate the movement and delivery of global products and services that support worldwide markets such as finance, energy resources, and healthcare systems.

With these technological advancements, comes a new level of complexity as organizations struggle to integrate systems, processes and data feeds. As a result, the demand for systems engineering and related skills is expected to grow significantly.

Systems engineers design and implement computer systems, software, and networks, including defining complex system requirements, and determining system specifications, processes and working parameters.

The Systems Engineering studies and research in the Industrial Engineering MS program are intended for individuals of all engineering disciplines. Research and coursework focus on a systems view of engineering problems related to the management of complex industrial, military, government, and social systems.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-PhD.pdf>.

Curriculum

The Industrial Engineering PhD program requires a minimum of 72 credit hours beyond the bachelor's degree. If a student holds a master's degree, the student must complete at least 27 credit hours of required coursework, in addition to 15 credit hours of dissertation.

Of the total coursework taken, 27 hours must be formal course work exclusive of independent study and 15 credit hours must consist of dissertation research (EIN 7980). All remaining hours are determined with a faculty adviser and approved by the department. Details about this program are located in the Industrial Engineering PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

As a pre-doctoral student at the beginning of the PhD program, a preliminary plan of study must be developed with the graduate program director and meet with departmental approval. At this time transfer credit will be evaluated on a course-by-course basis. The student's plan of study itemizing the study plan must be approved prior to the end of the first semester of studies by the Graduate Director of the IEMS department.

After completion of the Qualifying Examination and admission as a doctoral student, the official plan of study is developed that must meet with departmental approval. The student's dissertation committee approves the final plan of study after the Candidacy Examination is passed. These steps are normally completed within the first year of study beyond the master's degree. The degree must be completed within seven years from the date of admission as a pre-doctoral student and within four years of passing the Candidacy Examination.

The Department of Industrial Engineering and Management Systems monitors student progress and may dismiss a student if performance standards or academic progress are not maintained. Satisfactory academic performance in a program includes, but is not limited to, maintaining at least a 3.0 GPA in all graduate work taken as part of (or transferred into) the plan of study. Satisfactory performance also involves maintaining the standards of academic progress and professional integrity expected in our discipline. Failure to maintain these standards may result in dismissal from the program.

Required Courses: 6 Credit Hours

- ESI 6891 - IEMS Research Methods **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**

Elective Courses: 51 Credit Hours

- At least seventeen unrestricted electives
- A maximum of 30 semester credit hours from an earned master's degree may be applied toward these requirements. Waived credits are evaluated on a course-by-course basis.
- A maximum of 12 hours of Independent Study and/or Doctoral research is allowed in the Ph.D. program of study.

Dissertation: 15 Credit Hours

- EIN 7980 Dissertation (15 credits hours minimum)

List of Electives

Students, with the approval of their advisers and/or the graduate program director, may select from the following groups of courses to satisfy the needs of their research goals or career objectives. To assist students in achieving their goals and objectives, courses are grouped below to suggest focus areas, only as guides for advising and course selection. The listing of these courses does not guarantee that they will be offered by the department in a particular year or semester.

In addition to the courses listed below, students may be allowed to take courses from the following disciplines, with the approval of the graduate program director, as an elective in their graduate plan of study.

- Other Engineering Programs
- Computer Science
- Mathematics and Statistics
- Business Administration/Management

Group A: Human System Engineering/Ergonomics

- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EIN 6271 - Human Reliability **3 Credit Hours**

Group B: Quality and Production Systems

- ESI 6225 - Quality Design and Control **3 Credit Hours**
- ESI 6224 - Quality Management **3 Credit Hours**
- EIN 6336 - Production and Inventory Control **3 Credit Hours**
- EIN 5356 - Cost Engineering **3 Credit Hours**
- ESI 5227 - Total Quality Improvement **3 Credit Hours**

Group C: Management Systems

- EIN 6182 - Engineering Management **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**

- EIN 6370 - Innovation in Engineering Design **3 Credit Hours**
- EIN 6339 - Operations Engineering **3 Credit Hours**
- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**

Group D: Simulation, Optimization, and Modeling

- ESI 6336 - Queueing Systems **3 Credit Hours**
- ESI 5306 - Operations Research **3 Credit Hours**
- ESI 6418 - Linear Programming and Extensions **3 Credit Hours**
- ESI 6532 - Object-Oriented Simulation **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- EIN 6936 - Seminar in Advanced Industrial Engineering **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**

Group E: Systems Engineering

- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 5359 - Risk Assessment and Management **3 Credit Hours**
- EIN 6215 - System Safety Engineering and Management **3 Credit Hours**
- ESI 5236 - Reliability Engineering **3 Credit Hours**
- EIN 5346 - Engineering Logistics **3 Credit Hours**

Examinations

At Qualifying Examination (QE) time students should know their intended direction of research but they do not necessarily know their specific topic/problem. The QE's objective is to determine whether the student's knowledge allows for a thorough understanding of methods and techniques discussed in the literature in his/her area(s) of interest.

The IEMS PhD Qualifying Examination is a take-home exam designed to test the student's knowledge of fundamentals within the discipline and to assess the student's ability to conduct independent research and to think analytically, creatively, and independently. Exam questions address the student's global research awareness as well as his/her analytical thinking, research potential, and communication skills. The student must be able to understand the field's literature, as well as to summarize and discuss research findings.

It is strongly recommended that students take ESI 6891 IEMS Research Methods prior to taking the Qualifying Examination. While thinking about taking the Qualifying Examination, students are strongly encouraged to evaluate their options for research and make informed decisions about their area of research interests. It is recommended that students seek advice from faculty members whose research interests match their own research areas in order for the students to properly select their electives and develop the appropriate plan of study.

In addition to the Qualifying Examination, the student must pass a Candidacy Examination and a Dissertation Defense Examination. Details about these examinations and other requirements are located in the Industrial Engineering PhD Handbook.

The Candidacy Examination may be taken any time after successful completion of the Qualifying Examination, but not in the same semester. The objective of the Candidacy Examination is to determine if the student has the breadth and depth of knowledge required to conduct independent research in the proposed area. The Candidacy Examination includes an oral presentation of a detailed dissertation proposal, which becomes the oral candidacy document, and the

written component of the Candidacy Examination is satisfied by the proposal document, which becomes the required candidacy document.

The Dissertation Defense Examination is an oral examination taken in defense of the written dissertation. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar of the College of Graduate Studies website at least two weeks before the defense date.

Dissertation Committee Requirement

The doctoral committee must consist of a minimum of four members: at least three must be graduate faculty members from within the student's department, and one must be at large, from graduate faculty scholars outside the Industrial Engineering faculty. The committee chair must be a member of the graduate faculty who is approved to direct dissertations. Faculty members with joint appointments in IEMS may serve as department-faculty committee members. Adjunct faculty and off-campus experts who are graduate faculty scholars may serve as the outside-the-department person on the committee, as well as serve as co-chairs of the committee with the approval of the department Chair. The College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee, or appoint a co-adviser.

Joint faculty members may serve as committee chairs. Off-campus experts and adjunct faculty who are graduate faculty scholars may not serve as committee chairs, but may serve as co-chairs.

All committee members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal or final dissertation must be approved by the advisory committee with no more than one dissenting vote.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence of successful completion of these requirements must be received by the College of Graduate Studies one day prior to the start of classes for the semester in which a student wishes to enroll in dissertation hours.

- Completion or near completion of course work, except for dissertation hours.
- Successful completion of the candidacy examination, including successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Equipment Fee

Students in the Industrial Engineering PhD program pay a \$58 equipment fee each semester that they are enrolled. For part-time students, the equipment fee is \$29 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Bachelor's or Master's degree in Industrial Engineering or a closely related discipline
- An official, competitive score on the GRE taken within the last five years
- Résumé or Curriculum Vita
- Goal Statement
 - The Goal Statement should discuss all relevant professional background and any previous research experience. The statement should explain the motivation behind the pursuit of a doctoral degree in Industrial Engineering at UCF. Future career goals after the completion of the applicant's doctoral study should be discussed.
 - Most importantly, the applicant must clearly describe the particular area(s) of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential dissertation advisor.
 - The goal statement should be between 500 and 1,000 words.
- Three letters of recommendation
 - The letters of recommendation should be from faculty members, university administrators and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for PhD applicants must discuss the applicant's ability to perform graduate-level research. At least two of the letters should be furnished by college or university professors who are acquainted with the applicant

Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Fellowships and assistantships may be awarded based on the student's GPA, GRE scores, letters of recommendation, curriculum vitae/resume, and goals statement.

Students must complete any needed articulation course work and pass a PhD Qualifying Examination in order to be admitted as a regular doctoral student. This exam is normally taken within the first year after all articulation work is completed.

Application Deadlines

Industrial Engineering PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mansoor Mollaghasemi PhD

Associate Professor

mollagha@ucf.edu

Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

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Integrative and Conservation Biology PhD ♦♦

College: Sciences	Degree: PhD
Department: Biology	Option: Dissertation
Program Websites: https://sciences.ucf.edu/biology/graduate/	
Graduate Program Handbook	

Program Description

The Integrative and Conservation Biology PhD program prepares students for independent research and roles within industry, nongovernmental organizations, academia, or government sectors, combining biological sciences with a range of other disciplines.

The purpose of this interdisciplinary training is to produce scientists capable of doing independent research and the ability to communicate issues of biology and conservation to policymakers, the general public, and industry.

Students will choose one of two specializations: Conservation Biology or Integrative Biology. The Conservation Biology Track is intended to provide the academic background necessary to begin work in industry, non-governmental organizations, or government in a leadership role applying cutting-edge principles to problem-solving in conservation biology. The Integrative Biology Track embraces applied and basic research concerning ecology, evolution, physiology, genetics, behavior, and conservation. Students in either track would be prepared to pursue an academic career.

Program Tracks

- Integrative and Conservation Biology PhD, Conservation Biology Track ♦♦
- Integrative and Conservation Biology PhD, Integrative Biology Track ♦♦

Curriculum

Students in the Integrative and Conservation Biology PhD program must choose either the Conservation Biology Track or the Integrative Biology Track.

The Conservation Biology Track requires 72 credit hours beyond the bachelor's degree, including a minimum of 27 hours of formal course work excluding independent study. The formal course work includes 15 credit hours of required core courses and 12 credit hours of graduate-level courses from Biology (or other departments) selected in consultation with the advisor and the dissertation committee (at least 4 of the 12 credit hours must be offered through the Biology Department). The remaining 45 credit hours may consist of additional electives, doctoral dissertation research (PCB 7980), and a maximum of 12 credit hours of combined directed research (PCB 6918, PCB 7919, and PCB 5917) and independent study (PCB 6908). In addition, at least 15 credit hours of the remaining 45 credit hours must be comprised of doctoral dissertation research (PCB 7980).

The Integrative Biology Track requires 72 credit hours beyond the bachelor's degree, including a minimum of 27 hours of formal course work excluding independent study. The formal course work includes 7 credit hours of required core courses and 20 credit hours of graduate-level courses from Biology (or other departments) selected in consultation with the adviser and the dissertation committee (at least 12 of the 20 credit hours must be offered through the Biology Department). The remaining 45 credit hours may consist of additional electives, doctoral dissertation research (PCB 7980), and a maximum of 12 credit hours of combined directed research (PCB 6918, PCB 7919, and PCB 5917) and independent study (PCB 6908). In addition, at least 15 credit hours of the remaining 45 credit hours must be comprised of doctoral dissertation research (PCB 7980).

A student is required to establish a program of study before the completion of nine credit hours of course work, in conjunction with their dissertation advisor and advisory committee. A student's advisory committee may require the candidate to take any graduate course taught at UCF if deemed appropriate for the student's area of emphasis. Students entering with a master's degree may request up to 30 semester credit hours of previous work be waived toward the requirements for this degree with approval from the advisory committee. Students who transfer 30 credit hours must still take 2 credit hours of Biology Seminar (BSC 6935) and Professional Development I (PCB 6095) and II (PCB 6096). Students may register for dissertation research only after passing the candidacy exam.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Independent Learning

Graduate students enrolled in the Integrative and Conservation Biology PhD program are expected to engage in independent learning throughout their graduate career. Research toward, and ultimate completion, of the doctoral dissertation, is the primary example of independent learning in which all doctoral students participate. Independent learning is also a key component of the core courses, where the emphasis is placed on the development of analytical skills and critical thinking. In addition, depending on their career goals, other experiences such as directed readings, additional research projects, or internships may be undertaken by the students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Applicants should first identify faculty who match their own research interests and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student's dissertation advisor. Applicants to the PhD program who do not have a consenting dissertation advisor within the faculty will not be accepted into the program.

Application Deadlines

Students applying for summer or spring admission will be considered on an ad hoc basis.

Integrative and Conservation Biology PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Dec 1		
International Applicants	Dec 1	Dec 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or teaching assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kate Mansfield PhD

Associate Professor
 Graduate Program Director
 BioGradChair@ucf.edu
 BIO 402B

Juana Pasco

Graduate Admissions Specialist
juana.pasco@ucf.edu
Telephone: 407-823-6525
BL301

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
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Mailing Address

UCF College of Graduate Studies
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<http://finaid.ucf.edu>

Integrative and Conservation Biology PhD, Conservation Biology Track ♦♦

College: Sciences	Degree: PhD
Department: Biology	Option: Dissertation
Program Websites: http://sciences.ucf.edu/biology/graduate	

Track Description

The Conservation Biology track in the Integrative and Conservation Biology PhD program prepares students for independent research and roles within industry, nongovernmental organizations or government sectors combining traditional biological sciences with a range of other disciplines.

The Conservation Biology track within the Integrative and Conservation Biology PhD program is intended to provide the academic background necessary to begin work in industry, nongovernmental organizations, or government in a leadership role applying cutting-edge principles to problem solving in conservation biology. Students in this track would also be prepared to pursue an academic career.

Curriculum

The Conservation Biology Track in the Integrative and Conservation Biology PhD program requires 72 credit hours beyond the bachelor's degree, including a minimum of 27 hours of formal coursework excluding independent study. The formal coursework includes 15 credit hours of required core courses and at least 12 credit hours of additional graduate-level courses from Biology (or other departments) selected in consultation with the advisor and the dissertation committee (at least 4 of the 12 credit hours must be offered through the Biology Department). The remaining 45 credit hours may consist of additional electives, doctoral dissertation research (PCB 7980), and a maximum of 12 credit hours of combined directed research (PCB 6918, PCB 7919, and PCB 5917) and independent study (PCB 6908). In addition, at least 15 credit hours of the remaining 45 credit hours must be comprised of doctoral dissertation research (PCB 7980).

A student is required to establish a program of study before the completion of nine credit hours of coursework, in conjunction with their dissertation advisor and advisory committee. A student's advisory committee may require the candidate to take any graduate course taught at UCF if deemed appropriate for the student's area of emphasis. Students entering with a master's degree may request up to 30 semester credit hours of previous work be waived toward the requirements for this degree with approval from the advisory committee. Students who transfer 30 credit hours must still take 2 credit hours of Biology Seminar (BSC 6935) and Professional Development I (PCB 6095) and II (PCB 6096). Students may register for dissertation research only after passing the candidacy exam.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

- PCB 6042 - Conservation Biology Theory **4 Credit Hours**
- PCB 6053C - Restoration Ecology **4 Credit Hours**
- PCB 6466 - Methods in Experimental Ecology **3 Credit Hours**
- BSC 6935 - Seminar in Biology **1 Credit Hours** (2 credit hours, take twice at 1 credit hour each)
- PCB 6095 - Professional Development in Biology I **1 Credit Hours**
- PCB 6096 - Professional Development in Biology II **1 Credit Hours**

Elective Courses: 12 Credit Hours

A minimum of 12 credit hours of formal graduate-level courses from Biology, or other departments, are selected in consultation with the advisor and the dissertation committee. The goal is to tailor the program of study to the individual student's needs while maximizing exposure to a variety of disciplines including, among others, policy, economics, sociology, engineering, chemistry, statistics, or computer science.

Dissertation: 15 Credit Hours Minimum

- PCB 7980 - Dissertation **15 Credit Hours**

Advisory Committee

The Advisory Committee shall consist of a minimum of four members, including the dissertation advisor, with at least three members coming from the graduate faculty in the Biology Department. At least one member will be from a department other than Biology or from outside the university. The chair, or co-chair, must be a member of the program graduate faculty.

Enrollment Requirements

Students are required to register for 9 credit hours in fall and spring before their candidacy exam, and 6 credit hours in summer if enrolled. After being admitted to candidacy, minimum enrollment is 3 credit hours of dissertation research each semester.

Additional Electives - 30 Credits

In addition to the above required, elective, and dissertation credits, the student must enroll in an additional 30 credit hours of electives. These electives may include additional formal coursework, additional dissertation research hours (PCB 7980), and a maximum of 12 credit hours combined of independent study (PCB 6908) and directed research (PCB 6918, PCB 7919, and PCB 5917). Professional internship hours can be substituted for directed research.

Qualifying Examination

The written qualifying examination should be completed within the first two years of the student's program. The exam seeks to cover areas of general knowledge and discipline-specific knowledge within the student's declared track. These questions could be related to the dissertation research proposal or designed to examine general knowledge and reasoning within the field.

The candidate will meet with their advisory committee at least two months prior to the examination to discuss expectations. Committee members must clearly articulate in writing the general areas that may be examined. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination and requires a majority vote by committee members to pass the exam. A second failed attempt will result in dismissal from the program.

Candidacy Examination

Each student will be required to generate and orally defend a written proposal outlining their dissertation research to their dissertation advisory committee no later than 12 months after passing the Qualifying Examination. The oral Candidacy Examination will cover all areas within the scope of the student's doctoral program and requires that the

student demonstrate knowledge of the theory, literature and research methodologies relevant to the proposed area of research as well as demonstrate an understanding of how their work relates to the field of biology as a whole. After passing the Candidacy Examination and meeting other requirements, the student will be deemed as having been admitted to candidacy and can register for dissertation hours. Once a student is admitted to candidacy, the focus will be on dissertation research. For most students, the research and writing of the dissertation will take two to three years after advancing to candidacy. During this time, students should remain in close contact with the dissertation advisor and advisory committee, and annual progress reports must be filed with the Graduate Program Director.

Candidacy Examination - Written Proposal

A written dissertation proposal, already approved by the advisor, must be submitted to each committee member no later than two weeks prior to the Candidacy Examination. Typically, the proposal will be in the format described below. However, in cases where this format is not appropriate, an alternative format may be used with the approval of the dissertation advisor. The proposal should be approximately 10 to 15 pages in length not including references, single-spaced and typed in 12-point font with one-inch margins on all sides. The use of figures and tables is encouraged. With rare exceptions it is expected that dissertation research will be hypothesis-driven.

1. **Specific Aims:** Describe concisely the problem(s) to be addressed and the specific goals of the dissertation research as they relate to the problem(s), including clear statements of hypotheses to be tested.
2. **Background and Significance:** Review background literature relevant to the dissertation topic, indicating clearly where gaps in knowledge exist. Justify the need for the research by explaining its anticipated significance. Conclude by linking gaps in current knowledge to the proposed specific aims.
3. **Methodology:** Outline carefully the study design (observations, experiments, models, statistical analysis, etc.) related to, and the methodology to be used for, each specific aim. Methodologies should be explained in sufficient detail to allow committee members to assess the validity of its use in the study. Potential outcomes and alternative approaches should be discussed.
4. **Literature Cited:** References should be indicated in the main body of the proposal wherever appropriate and should follow the format of a peer-reviewed journal in a field of study appropriate to the research. This section can be as long as necessary.

Candidacy Examination - Oral Component

At least two weeks prior to the examination, an abstract describing the proposed research will be posted in the Biological Sciences Building and circulated by e-mail among faculty and graduate students. The candidate will present the research proposal in a forum open to all faculty, students and visitors. The oral presentation should be approximately 30-45 minutes in length to be followed by a public question-and-answer period. Presentation of preliminary data is neither required nor expected, but should be provided if available and relevant. With the exception of the advisory committee and candidate, all faculty, students and visitors will leave at the conclusion of the public question-and-answer period. The committee will continue the exam in closed session with further questioning. Questions can be directed to any matter relevant to the research proposal and areas of weakness previously identified in the written (qualifying) exam. A majority vote is required to pass the examination; however, no more than one negative vote is permitted. The majority must include the dissertation advisor. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination. A second failed attempt will result in dismissal from the program.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Program of study submitted and approved.
- Dissertation Committee formed (without external member)
- Successful completion of the qualifying exam.

- Completion of all coursework (except for dissertation hours)
- External member added to Dissertation Committee.
- Successful completion of candidacy exam.

Dissertation Defense

The dissertation is expected to represent an original and significant contribution to the discipline. Upon completion and approval of the doctoral dissertation by all appropriate faculty and university offices, the student will make a formal presentation of the research findings in seminar format to the dissertation committee and other university faculty and students who may wish to attend.

The dissertation should be in a format appropriate for publication and should be "tightened" to a readiness for submittal by use of appendixes for nonessential information. The major role of the student's advisory committee is to offer guidance on study design and interpretation of results. A polished draft must be delivered to the advisory committee for review after the student and dissertation advisor have agreed upon editorial changes; this should occur well before the anticipated date of the final defense. Committee members have the right to reject documents that fail to meet these guidelines. Committee members should be given at least two weeks to review the draft before the student attempts to schedule the final defense. The final defense is to be scheduled only after the advisory committee agrees that the dissertation is ready for defense. Committee members should return the corrected dissertation to the student two weeks after receipt and the candidate should check with committee members to ensure they have the time to review the document. For example, if the student delivers the final draft to the committee one month prior to the proposed defense date, that would allow two weeks before the scheduled defense date for the student to make recommended changes.

At least two weeks prior to the defense, an abstract describing the research conducted and conclusions reached will be posted in the Biological Sciences Building, circulated by e-mail among faculty and graduate students, and posted at the College of Graduate Studies Events Calendar. The candidate will present the research in a forum open to all faculty, students, and visitors. The oral presentation should be approximately 45-50 minutes in length to be followed by a question-and-answer period. In the presentation the candidate should focus on background information, describe the research performed, and draw attention to the significance of the conclusions reached. With the exception of the committee and candidate, all faculty, students, and visitors will leave at the conclusion of the question-and-answer period. The committee will continue the defense and the candidate will answer questions about the subject matter presented and defend the conclusions drawn. The committee will ask questions of the process used and assess the candidate's level of competency with the research topic. A majority vote is required to pass the examination; however, no more than one negative vote is permitted. The majority must include the dissertation advisor.

Student Orientation

An orientation for all incoming students will be scheduled one week prior to each fall semester. The orientation will include tours of the program facilities, a session on registration, university policies and procedures, and expectations of doctoral study. Further, Environmental Health and Safety will present a program on topics such as laboratory safety, chemical and fire safety, biohazard training, and radioisotope handling. Expectations for Graduate Teaching Assistants (GTA) and Graduate Research Assistants (GRA) will be fully covered. In addition, students will be required to participate in the program for GTAs offered by the UCF Faculty Teaching and Learning Center and the College of Sciences. Students are strongly encouraged to attend the university's orientation also, held approximately one week before classes begin in the Fall semester.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- Official GRE scores from the last 5 years are required for applicants without an MS degree in a closely related field.
- Three letters of recommendation.
- Résumé or CV.
- A personal statement. Assessment of your application is based on your academic background, analytical skills, communication skills, and research experience. A personal statement is an opportunity to convey to the selection committee your personal, academic, and/or professional experiences that have led to your desire to attend graduate school. Include your long-term career goals and how a graduate education will help you achieve these goals. It is important to dedicate a section of your statement to discuss your research interests. Please include a research question and approach (to the extent possible) you would like to pursue while earning your degree.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Students entering the graduate program with regular status are normally expected to have completed course work generally required for a bachelor's degree in biology.

Applicants should first identify faculty who match their own research interests, and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student's dissertation advisor. Applicants to the Ph.D. program who do not have a consenting dissertation advisor within the department faculty will not be accepted into the program. Admission is competitive and based on an overall assessment of the qualifications as submitted and the availability of faculty to serve as dissertation advisor.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the identification of a dissertation advisor, and the applicant's potential for completing the degree.

Application Deadlines

Students applying for summer or spring admission will be considered on an ad hoc basis.

Conservation Biology	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Dec 1		
International Applicants	Dec 1	Dec 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or teaching assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kate Mansfield PhD

Associate Professor
Graduate Program Director
BioGradChair@ucf.edu
BIO 402B

Juana Pasco

Graduate Admissions Specialist
juana.pasco@ucf.edu
Telephone: 407-823-6525
BL301

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Integrative and Conservation Biology PhD, Integrative Biology Track ♦♦

College: Sciences	Degree: PhD
Department: Biology	Option: Dissertation
Program Websites: https://sciences.ucf.edu/biology/graduate/	

Track Description

The Integrative Biology track in the Integrative and Conservation Biology PhD program prepares students for independent research and roles within industry, nongovernmental organizations or government sectors combining traditional biological sciences with a range of other disciplines.

The Integrative Biology track within the Integrative and Conservation Biology PhD program embraces applied and basic research concerning ecology, evolution, physiology, genetics, behavior, and conservation. Students taking this track will be prepared to pursue an academic career.

Curriculum

The Integrative Biology Track requires 72 credit hours beyond the bachelor's degree, including a minimum of 27 hours of formal coursework excluding independent study. The formal coursework includes 7 credit hours of required core

courses and at least 20 credit hours of graduate-level courses from Biology (or other departments) selected in consultation with the advisor and the dissertation committee (at least 12 of the 20 credit hours must be offered through the Biology Department). The remaining 45 credit hours may consist of additional electives, doctoral dissertation research (PCB 7980), and a maximum of 12 credit hours of combined directed research (PCB 6918, PCB 7919, and PCB 5917) and independent study (PCB 6908). In addition, at least 15 credit hours of the remaining 45 credit hours must be comprised of doctoral dissertation research (PCB 7980).

A student is required to establish a program of study before the completion of nine credit hours of coursework, in conjunction with their dissertation advisor and advisory committee. A student's advisory committee may require the candidate to take any graduate course taught at UCF if deemed appropriate for the student's area of emphasis. Students entering with a master's degree may request up to 30 semester credit hours of previous work be waived toward the requirements for this degree with approval from the advisory committee. Students who transfer 30 credit hours must still take 2 credit hours of Biology Seminar (BSC 6935) and Professional Development I (PCB 6095) and II (PCB 6096). Students may register for dissertation research only after passing the candidacy exam.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 7 Credit Hours

- PCB 6466 - Methods in Experimental Ecology **3 Credit Hours**
- BSC 6935 - Seminar in Biology **1 Credit Hours** (2 credit hours, take twice at 1 credit hour each)
- PCB 6095 - Professional Development in Biology I **1 Credit Hours**
- PCB 6096 - Professional Development in Biology II **1 Credit Hours**

Elective Courses: 20 Credit Hours

A minimum of 20 credit hours of formal graduate-level courses from Biology, or other departments, are selected in consultation with the advisor and the dissertation committee. The goal is to tailor the program of study to the individual student's needs while maximizing exposure to a variety of disciplines including, among others, policy, economics, sociology, engineering, chemistry, statistics, or computer science.

Dissertation: 15 Credit Hours Minimum

- PCB 7980 - Dissertation **15 Credit Hours**

Advisory Committee

The Advisory Committee shall consist of a minimum of four members, including the dissertation advisor, with at least three members coming from the graduate faculty of the Biology Department. At least one member will be from a department other than Biology or from outside the university. The chair, or co-chair, must be a member of the program graduate faculty.

Enrollment Requirements

Students are required to register for 9 credit hours in fall and spring before their candidacy exam, and 6 credit hours in summer if enrolled. After being admitted to candidacy, minimum enrollment is 3 credit hours of dissertation research each semester.

Additional Electives - 30 Credits

In addition to the above required, elective, and dissertation credits, the student must enroll in an additional 30 credit hours of electives. These electives may include additional formal coursework, additional dissertation research hours (PCB 7980), and a maximum of 12 credit hours combined of independent study (PCB 6908) and directed research (PCB 6918, PCB 7919, and PCB 5917). Professional internship hours can be substituted for directed research.

Qualifying Examination

The written qualifying examination should be completed within the first two years of the student's program. The exam seeks to cover areas of general knowledge and discipline-specific knowledge within the student's declared track. These questions could be related to the dissertation research proposal or designed to examine general knowledge and reasoning within the field.

The candidate will meet with their advisory committee at least two months prior to the examination to discuss expectations. Committee members must clearly articulate in writing the general areas that may be examined. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination and the examination requires a majority vote by committee members. A second failed attempt will result in dismissal from the program.

Candidacy Examination

Each student will be required to generate and orally defend a written proposal outlining their dissertation research to their dissertation advisory committee no later than 12 months after passing the Qualifying Examination. The oral Candidacy Examination will cover all areas within the scope of the student's doctoral program and requires that the student demonstrate knowledge of the theory, literature, and research methodologies relevant to the proposed area of research as well as demonstrate an understanding of how their work relates to the field of biology as a whole. After passing the Candidacy Examination and meeting other requirements, the student will be deemed as having been admitted to candidacy and can register for dissertation hours. Once a student is admitted to candidacy, the focus will be on dissertation research. For most students, the research and writing of the dissertation will take two to three years after advancing to candidacy. During this time, students should remain in close contact with the dissertation advisor and advisory committee and annual progress reports must be filed with the Graduate Program Director.

Candidacy Examination - Written Proposal

A written dissertation proposal, already approved by the advisor, must be submitted to each committee member no later than two weeks prior to the Candidacy Examination. Typically, the proposal will be in the format described below. However, in cases where this format is not appropriate, an alternative format may be used with the approval of the dissertation advisor. The proposal should be approximately 10 to 15 pages in length not including references, single-spaced and typed in 12-point font with one-inch margins on all sides. The use of figures and tables is encouraged. With rare exceptions it is expected that dissertation research will be hypothesis-driven.

1. **Specific Aims:** Describe concisely the problem(s) to be addressed and the specific goals of the dissertation research as they relate to the problem(s), including clear statements of hypotheses to be tested.
2. **Background and Significance:** Review background literature relevant to the dissertation topic, indicating clearly where gaps in knowledge exist. Justify the need for the research by explaining its anticipated significance. Conclude by linking gaps in current knowledge to the proposed specific aims.
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4. **Literature Cited:** References should be indicated in the main body of the proposal wherever appropriate and should follow the format of a peer-reviewed journal in a field of study appropriate to the research. This section can be as long as necessary.

Candidacy Examination – Oral Component

At least two weeks prior to the examination, an abstract describing the proposed research will be posted in the Biological Sciences Building and circulated by e-mail among faculty and graduate students. The candidate will present the research proposal in a forum open to all faculty, students, and visitors. The oral presentation should be approximately 30-45 minutes in length to be followed by a public question-and-answer period. Presentation of preliminary data is neither required nor expected, but should be provided if available and relevant. With the exception of the advisory committee and candidate, all faculty, students and visitors will leave at the conclusion of the public question-and-answer period. The committee will continue the exam in closed session with further questioning. Questions can be directed to any matter relevant to the research proposal and areas of weakness previously identified in the written (qualifying) exam. A majority vote is required to pass the examination; however, no more than one negative vote is permitted. The majority must include the dissertation advisor. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination. A second failed attempt will result in dismissal from the program.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Program of study submitted and approved.
- Dissertation Committee formed (without external member).
- Successful completion of qualifying exam.
- Completion of all coursework (except for dissertation hours).
- External member added to Dissertation Committee.
- Successful completion of candidacy exam.

Dissertation Defense

The dissertation is expected to represent an original and significant contribution to the discipline. Upon completion and approval of the doctoral dissertation by all appropriate faculty and university offices, the student will make a formal presentation of the research findings in seminar format to the dissertation committee and other university faculty and students who may wish to attend.

The dissertation should be in a format appropriate for publication and should be "tightened" to a readiness for submittal by use of appendixes for nonessential information. The major role of the student's advisory committee is to offer guidance on study design and interpretation of results. A polished draft must be delivered to the advisory committee for review after the student and dissertation advisor have agreed upon editorial changes; this should occur well before the anticipated date of the final defense. Committee members have the right to reject documents that fail to meet these guidelines. Committee members should be given at least two weeks to review the draft before the student attempts to schedule the final defense. The final defense is to be scheduled only after the advisory committee agrees that the dissertation is ready for defense. Committee members should return the corrected dissertation to the student two weeks after receipt and the candidate should check with committee members to ensure they have the time to review the document. For example, if the student delivers the final draft to the committee one month prior to the proposed defense date, that would allow two weeks before the scheduled defense date for the student to make recommended changes.

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An orientation for all incoming students will be scheduled one week prior to each fall semester. The orientation will include tours of the program facilities, a session on registration, university policies and procedures, and expectations of doctoral study. Further, Environmental Health and Safety will present a program on topics such as laboratory safety, chemical and fire safety, biohazard training, and radioisotope handling. Expectations for Graduate Teaching Assistants (GTA) and Graduate Research Assistants (GRA) will be fully covered. In addition, students will be required to participate in the program for GTAs offered by the UCF Faculty Center for Teaching and Learning and the College of Sciences. Students are strongly encouraged to attend the university orientation as well, held approximately one week prior to each fall semester.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- Official GRE scores from the last 5 years are required for applicants without an MS degree in a closely related field.
- Résumé or CV
- A personal statement. Assessment of your application is based on your academic background, analytical skills, communication skills, and research experience. A personal statement is an opportunity to convey to the selection committee your personal, academic, and/or professional experiences that have led to your desire to attend graduate school. Include your long-term career goals and how a graduate education will help you achieve these goals. It is important to dedicate a section of your statement to discuss your research interests. Please include a research question and approach (to the extent possible) you would like to pursue while earning your degree.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

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Applicants should first identify faculty who match their own research interests, and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student's dissertation advisor. Applicants to the Ph.D. program who do not have a consenting dissertation

advisor within the department faculty will not be accepted into the program. Admission is competitive and based on an overall assessment of the qualifications as submitted and the availability of faculty to serve as dissertation advisor.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the identification of a dissertation adviser, and the applicant's potential for completing the degree.

Application Deadlines

Students applying for summer or spring admission will be considered on an ad hoc basis.

Integrative Biology	*Fall Priority	Fall	Spring	Summer
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Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Kate Mansfield PhD

Associate Professor
 Graduate Program Director
 BioGradChair@ucf.edu
 BIO 402B

Juana Pasco

Graduate Admissions Specialist
juana.pasco@ucf.edu
Telephone: 407-823-6525
BL301

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Integrative Anthropological Sciences PhD

College: Sciences	Degree: PhD
Department: Anthropology	Option: Dissertation
Program Websites: https://sciences.ucf.edu/anthropology/	
Graduate Program Handbook	

Program Description

The Integrative Anthropological Sciences PhD emphasizes cross-disciplinary empirical research on the dynamics of transformation and change in societies past and present. The program integrates methodologies from the science and technology components of Science, Technology, Engineering, and Math (STEM) with the theoretical and analytical strengths of social science to address critical social challenges.

The curriculum is comprised of the following basic elements: 1) a core curriculum focused on methodological expertise; 2) a topical curriculum covering the dynamics of transformation in human societies; 3) professional competence in workplace skills embedded into all courses; and 4) experiential learning via independent research. The central purpose of the program is to produce graduates with the necessary methodological expertise and analytical skills to create innovative solutions to the ongoing challenges of local and global disparities, environmental and anthropogenic crises, and the resilience and vulnerability of human populations.

Curriculum

The Integrative Anthropological Sciences PhD requires 51 credit hours beyond an earned master's degree. Required coursework minimally includes 12 credit hours of core courses, 24 credit hours of elective courses, and 15 hours of dissertation research. If foundational or theoretical coursework is not present in the earned master's, remaining credit hours may consist of additional electives, doctoral research, and a maximum of 9 credit hours of directed research and independent study.

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Master's Degree

Required Courses—12 Credit Hours

Core—9 Credit Hours

- ANG 6002 - Proseminar in Anthropology **3 Credit Hours**
- ANG 6931 - Science, Technology, and the Transformation of Human Societies **3 Credit Hours**
- ANG 7075 - Advanced Anthropological Topics in Geospatial Analysis **3 Credit Hours**

Research Methods—3 Credit Hours

Select one course from the list below.

- ANG 6498 - Advanced Qualitative Methods in Anthropology **3 Credit Hours**
- ANG 7496 - Advanced Quantitative Methods in Anthropology **3 Credit Hours**

Elective Courses—24 Credit Hours

Unrestricted Electives—24 Credit Hours

All students in the doctoral program must complete 24 hours of unrestricted electives. The unrestricted electives offer the student the opportunity to explore their interests, further advance their methodological skills, and gain interdisciplinary experience. To fulfill their unrestricted electives requirement, students may also take graduate-level courses in programs outside the department, particularly in Biology, Sociology, Political Science, History, and the College of Health and Public Affairs but, outside courses must not exceed 12 credit hours. The student's faculty advisor and the Graduate Program Coordinator must approval all graduate courses taken outside the department. The student may also use the second methods course identified in the Core requirement as an Unrestricted Elective. The departmental course options for the Unrestricted Electives include the following:

- ANG 5094 - Writing in Anthropology **3 Credit Hours**
- ANG 5166 - Problems in Maya Studies **3 Credit Hours**
- ANG 5191 - Mortuary Archaeology **3 Credit Hours**
- ANG 5228 - Maya Iconography **3 Credit Hours**
- ANG 5307 - Peoples and Cultures of Latin America **3 Credit Hours**
- ANG 5341 - Caribbean Cultures **3 Credit Hours**
- ANG 5486 - Quantitative Research in Anthropology **3 Credit Hours**
- ANG 5525C - Human Osteology **4 Credit Hours**
- ANG 5531 - Nutritional Anthropology **3 Credit Hours**
- ANG 5622 - Language, Culture and Pedagogy **3 Credit Hours**
- ANG 5738 - Advanced Medical Anthropology **3 Credit Hours**
- ANG 5742 - Problems in Forensic Anthropology **3 Credit Hours**
- ANG 5822 - Maya Field Research **3 Credit Hours**
- ANG 5852 - GIS Methods in Anthropology **3 Credit Hours**
- ANG 5853 - Advanced GIS Methods in Anthropology **3 Credit Hours**
- ANG 6003 - Ethics in Anthropology **3 Credit Hours**
- ANG 6021 - Advanced Topics in Environmental Transformations **3 Credit Hours**
- ANG 6110 - Archaeological Theory and Method **3 Credit Hours**
- ANG 6125C - Applied Materials Analysis in Anthropological Sciences **3 Credit Hours**
- ANG 6144 - Contemporary Problems in the Study of Complex Societies **3 Credit Hours**
- ANG 6168 - The Ancient Maya **3 Credit Hours**
- ANG 6181C - GIS Applications in Anthropology **3 Credit Hours**
- ANG 6184 - Advances in Archaeological Practice **3 Credit Hours**
- ANG 6324 - Contemporary Maya **3 Credit Hours**
- ANG 6405 - Food Security and Sustainability **3 Credit Hours**
- ANG 6411 - Business Practices for the Anthropological Sciences **3 Credit Hours**
- ANG 6467 - Advanced Topics in Medical Anthropology **3 Credit Hours**
- ANG 6520C - Advanced Human Osteology **3 Credit Hours**
- ANG 6536 - Advances in Bioarchaeology **3 Credit Hours**
- ANG 6587 - Seminar in Biological Anthropology **3 Credit Hours**
- ANG 6821 - Forensic Archeology Field Methods **3 Credit Hours**
- ANG 6701 - Public and Applied Anthropology **3 Credit Hours**
- ANG 6930 - Seminar in Cultural Anthropology **3 Credit Hours**
- ANG 6740C - Advanced Forensic Anthropology **3 Credit Hours**
- ANG 6801 - Ethnographic Research Methods **3 Credit Hours**

Dissertation—15 Credit Hours Minimum

- ANG 7980 Dissertation Research **15 credit hours**

In consultation with the advisor, each student must secure qualified members of their dissertation committee. The dissertation committee will consist of a minimum four members. At least three members must be Anthropology Graduate Faculty, and the student's advisor will serve as the committee chair. One member must be from either outside the student's department or UCF. Graduate faculty members must form the majority of any given committee. A Dissertation Committee must be formed prior to enrollment in dissertation hours.

A student who passes their candidacy exam (proposal defense) will begin the dissertation process. The dissertation serves as the culmination of the coursework that comprises this research-based degree. It must make a significant original theoretical, intellectual, practical, creative, or research contribution to the student's area within the discipline. Dissertations will be theoretically grounded, show expertise in the topic area, and utilize methodologically sound analysis of either quantitative data, qualitative data or mixed-methods data. The dissertation will be completed through a minimum of 15 hours of dissertation credit, which students will use to conduct original research.

Examinations

Qualifying Exam

Students are expected to form their dissertation committee by the beginning of their third semester. The Qualifying Exam will consist of a collection of research statements written by the PhD student in consultation with their committee and an oral defense of the statements. The number and topics of the statements will be determined by the advisor in consultation with the student and the dissertation committee. Passing the qualifying exam is necessary before a student can schedule their Candidacy Exam.

Candidacy Examination—Written Proposal and Oral Defense

Advancement to candidacy requires a successful defense of the student's dissertation grant proposal. This defense takes place in the semester prior to the one in which the student intends to enroll in dissertation hours, normally during the 4th semester. The proposal defense is based on a research proposal that follows the guidelines and format of a major external grant agreed upon by the dissertation committee.

Independent Learning

As with all graduate programs, independent learning is an important component in the IAS doctoral program. Students will demonstrate independent learning through research seminars, directed research and the dissertation. Doctoral students are also expected to pursue additional independent reading beyond formal coursework relevant to their research and career direction.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.

- A master's degree or its equivalent in Anthropology or a closely related discipline.
- A minimum cumulative GPA of 3.5 for all master's level work completed.
- Official, competitive GRE score taken within the last five years.
- A personal statement not to exceed 1,500 words.
- A curriculum vitae.
- A writing sample of at least 2,500 words demonstrating the ability to conduct graduate-level work.
- Three letters of recommendation.
- An on campus, by phone or virtual interview with a potential advisor.
- International applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL) or other equivalent test approved by the Graduate College unless they hold a degree from a US accredited institution. The TOEFL is strongly preferred. The minimum TOEFL score for full admissions consideration is 90 on the Internet-based test (IBT), 232 on the computer-based test, or 575 on the paper-based test. The minimum IELTS score is 7.0. Applicants should plan to take the appropriate test no later than November to ensure consideration of their applications by the December 1 deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Integrative Anthropological Sciences PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Dec 1		
International Applicants	Dec 1	Dec 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Beatriz Reyes-Foster PhD

Associate Professor
beatriz.reyes-foster@ucf.edu
Telephone: 407-823-2206
HPH RM 309

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Materials Science and Engineering PhD

College: Engineering and Computer Science	Degree: PhD
Department: Materials Science and Engineering	Option: Dissertation
Program Websites: http://mse.ucf.edu/graduate-program/	
Graduate Program Handbook	

Program Description

The Materials Science and Engineering PhD program provides students with a fundamental and applied research-based education suitable for seeking employment in industry or academia.

The Materials Science and Engineering PhD program is designed for students with a master's degree in materials science and engineering or closely related disciplines. The program provides students with a fundamental and applied research-based education suitable for seeking employment in industry or academia.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Materials-Science-Engineering-PhD.pdf>.

Curriculum

The Materials Science and Engineering PhD program requires a minimum of 72 credit hours beyond the bachelor's degree. The program requires 27 hours of formal course work exclusive of independent study and a minimum of 15 hours of dissertation research (EMA 7980). A minimum of 12 credit hours of elective coursework is required to be taken at UCF. Details of program requirements are located in the Materials Science and Engineering PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students entering the Materials Science and Engineering PhD program with a bachelor's degree are required to complete 72 credit hours of graduate coursework, of which 27 hours must be formal coursework, 12 credit hours must be elective courses taken at UCF and a minimum of 15 dissertation credit hours.

Students entering the Materials Science and Engineering PhD program with a master's degree are required to complete 72 credit hours of graduate coursework including up to 30 hours of credit transfer for formal courses from their master's degree. These students have to take at least 12 credit hours of formal elective courses as listed below at UCF and 27 credit hours of formal graduate coursework in total.

The rest of the hours in the PhD program can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the program director.

Core Courses: 12 Credit Hours

The following core courses are used as the basis for the doctoral qualifying exam and are recommended, but not required:

- EMA 5104 - Intermediate Structure and Properties of Materials **3 Credit Hours**
- EMA 5106 - Metallurgical Thermodynamics **3 Credit Hours**
- EMA 5317 - Materials Kinetics **3 Credit Hours**

- EMA 6126 - Physical Metallurgy **3 Credit Hours** or
- EMA 6319 - Colloids and Interface Engineering **3 Credit Hours**

Elective Courses: 57 Credit Hours

The program requires that 27 credit hours must be formal coursework, exclusive of independent study. Of these, it is required that 12 credit hours consist of elective courses taken at UCF, outside of the core courses listed above. Note that if both EMA 6126 - Physical Metallurgy and EMA 6319 - Colloids and Interface Engineering Colloids and Interface Engineering are taken, one of them may be taken as an elective. Elective courses that are commonly taught in Materials Science and Engineering are listed below:

- EMA 5104 - Intermediate Structure and Properties of Materials **3 Credit Hours**
- EMA 5106 - Metallurgical Thermodynamics **3 Credit Hours**
- EMA 5317 - Materials Kinetics **3 Credit Hours**
- EMA 6626 - Mechanical Behavior of Materials **3 Credit Hours**
- EMA 5108 - Surface Science **3 Credit Hours**
- EMA 5140 - Introduction to Ceramic Materials **3 Credit Hours**
- EMA 6130 - Advanced Phase Transformations in Materials **3 Credit Hours**
- EMA 6136 - Diffusion in Solids **3 Credit Hours**
- EMA 5585 - Materials Science of Thin Films **3 Credit Hours**
- EMA 6516 - X-ray Diffraction and Crystallography **3 Credit Hours**
- EMA 5586 - Photovoltaic Solar Energy Materials **3 Credit Hours**
- EMA 5584 - Biomaterials **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 6518 - Transmission Electron Microscopy **3 Credit Hours**
- EMA 5705 - High Temperature Materials **3 Credit Hours**
- EMA 5610 - Laser Materials Processing **3 Credit Hours**
- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EMA 6149 - Imperfections in Crystals **3 Credit Hours**

Electives Outside EMA Offerings

Other courses may be included in the elective hours with the approval of the student's faculty adviser and the Materials Science and Engineering graduate program director.

- CHM 5450 - Polymer Chemistry **3 Credit Hours**
- CHM 5451C - Techniques in Polymer Science **3 Credit Hours**
- CHM 6711 - Chemistry of Materials **3 Credit Hours**
- EEE 5332C - Thin Film Technology **3 Credit Hours**
- EEE 5352 - Semiconductor Material and Device Characterization **3 Credit Hours**
- EEE 6326C - MEMS Fabrication Laboratory **3 Credit Hours**
- EML 5290 - Introduction to MEMS and Micromachining **3 Credit Hours**
- EML 5291 - MEMS Materials **3 Credit Hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**
- OSE 6432 - Guided Waves and Optoelectronics **3 Credit Hours**
- PHZ 5405 - Condensed Matter Physics **3 Credit Hours**

Dissertation: 15 Credit Hours

The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website, www.cecs.ucf.edu/graddefense and on the Events Calendar of the College of Graduate Studies website at least two weeks before the defense date.

- EMA 7980 **15 Credit Hours** minimum

Examinations

The doctoral qualifying exam is a multi-part exam. The initial written assessment will be conducted during the fall term. The following spring term a second written assessment as well as oral assessment will be conducted. Upon successful completion of the doctoral qualifying exam process, a student is qualified to continue studying in the PhD program. For more information about the qualifying exam please visit, <http://mse.ucf.edu/graduate-program/>.

The candidacy exam should be taken in the academic semester the student completes 57 credit hours of required course work and is scheduled by mutual agreement of the student and his/her dissertation committee. The student must prepare a written description of their proposed dissertation research prior to the examination, and present that to their dissertation committee to review prior to the candidacy examination. Additionally, the student may be questioned orally during the exam by the dissertation committee on topics relevant to the proposed dissertation research.

Admission to Candidacy

The following items are required to be admitted to candidacy and enroll in dissertation hours (enrollment in dissertation hours begins the semester following the completion of these requirements). Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours.

- Completion of 51 credit hours of course work, except for dissertation hours.
- Successful completion of the qualifying examination.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved Graduate Faculty and Graduate Faculty Scholars.
- Submission of an approved program of study.

Dissertation Defense

All dissertations in Materials Science and Engineering must represent high-quality scientific work. Prior to scheduling the dissertation defense, the high quality of the research must be evidenced by: (1) two refereed journal publications with the doctoral candidate as first author that are in print, or formally accepted for publication, or (2) satisfaction of an alternative publication requirement as recommended by the Dissertation Advisory Committee and approved by a majority vote at a meeting of the program faculty (those having primary or secondary appointments in the MSE Department).

The dissertation proposal must be successfully defended and accepted by the Dissertation Committee in a meeting convened for that purpose. The dissertation proposal must be a complete dissertation document provided to the committee at least two weeks prior to the date of defense. In addition, the high quality of the research must be evidenced by two refereed journal publications of the doctoral candidate as first author that are in print, or formally accepted for publication, prior to the dissertation defense.

All members of the Dissertation Committee vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the advisory committee.

Equipment Fee

Full-time students in the Materials Science and Engineering PhD program pay \$17 per semester for equipment each semester that they are enrolled. Part-time students pay \$8.50 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Master's and/or bachelor's degree in Materials Science and Engineering or a closely related discipline.
- Résumé.
- Statement about educational, research and professional career objectives should include the student's intention for full or part-time study and their desire for an assistantship or fellowship.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

Materials Science and Engineering PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jiyu Fang PhD

Professor

jiyu.fang@ucf.edu

Telephone: 407-882-1182

Engineering I, RM 207B

Pamela Ross

pamela.ross@ucf.edu

Telephone: 407-823-3806

Engineering I, RM 207D

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

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GMAT: RZT-HT-58

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finaid@ucf.edu
<http://finaid.ucf.edu>

Mathematics PhD

College: Sciences	Degree: PhD
Department: Mathematics	Option: Dissertation
Program Websites: https://math.cos.ucf.edu/graduate/	
Graduate Program Handbook	

Program Description

The Mathematics PhD program prepares students with a broad base in pure, applied and industrial mathematics.

The Doctor of Philosophy degree in Mathematics is intended to provide a broad base in applied and industrial mathematics. The goal of the program is to produce students who will attain distinction in their fields of research. In order to achieve this, the program has required core courses as well as a set of electives providing cross-disciplinary subjects.

Students in the program can specialize in one of many aspects of mathematics, including Approximation Theory, Applied and Computational Harmonic Analysis, Big Data and Mathematical Statistics, Combinatorics and Graph Theory, Commutative Algebra and Algebraic Geometry, Control and Optimization, Differential and Symplectic Geometry, Fluid and Plasma Dynamics, Functional Analysis, Inverse and Ill-posed Problems, Mathematical Biology, Mathematical Finance, Nonlinear Waves and Nonlinear Dynamics, Numerical Analysis, Orthogonal Polynomials, Partial Differential Equations, Probability and Stochastic Analysis, and Tomography and Medical Imaging. Responding to this wide variety of interests, the program offers flexibility in the composition of the core courses as well as the candidacy examination. The program is comprehensive with opportunities for students to pursue research in a variety of disciplines.

Program Tracks

- Mathematics PhD, Financial Mathematics Track

Curriculum

The Mathematics PhD program consists of at least 75 credit hours of course work beyond the bachelor's degree, of which a minimum of 39 hours of formal course work, exclusive of independent study, and 15 credit hours of dissertation research (7980) are required. The program requires 18 credit hours of core courses, and 6 to 12 credit hours in two 2-semester sequences.

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—18 Credit Hours

The remaining 30 to 36 credit hours consist of additional dissertation research (7980 or 7919), at least 15 credit hours of regular classroom elective courses, and at most 12 credit hours of independent study or independent directed research. Electives require the approval of the adviser and the graduate program director; up to 12 credit hours may be taken outside the department. At least one-half of the program courses must be taken at the 6000 level. Students who pass the qualifying examination may substitute some of the core courses at the approval of the adviser and the graduate program director.

All students are required to complete the following courses with grade of "B" or better

- MAA 5237 - Mathematical Analysis **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**
- MAS 5145 - Advanced Linear Algebra and Matrix Theory **3 Credit Hours**
- MAP 6385 - Applied Numerical Mathematics **3 Credit Hours**
- MAA 6306 - Real Analysis **3 Credit Hours**
- MAA 6405 - Complex Variables **3 Credit Hours** or
- MAP 5336 - Ordinary Differential Equations and Applications **3 Credit Hours** or
- MAA 6506 - Functional Analysis **3 Credit Hours** or
- MAP 6111 - Mathematical Statistics **3 Credit Hours**

Elective Courses—42 Credit Hours

At least 21 hours of course work here must be formal course work, exclusive of independent study. Elective courses outside the department could be counted in plan of study with the permission of the graduate program director.

Restricted Electives—6-12 Credit Hours

All students are required to complete two 2-semester sequences. Sequences are pairs of related courses that give advanced knowledge in an area of mathematics.

Each sequence must be approved by the dissertation adviser, dissertation committee, and the graduate program director. The following shows examples of acceptable sequences using current courses. We expect that other sequences will be developed as our program grows. Note that some sequences consist of a core course plus one elective, while others consist of two electives. Thus, the credit hours in this requirement are variable (6 to 12 credit hours). A written examination on two such sequences will be required as part of the candidacy examination (see more details in Candidacy Examination section).

- MAA 6405 - Complex Variables **3 Credit Hours** and
- MAA 6404 - Complex Analysis **3 Credit Hours**
- MAD 5205 - Graph Theory I **3 Credit Hours** and
- MAD 6309 - Graph Theory II **3 Credit Hours**
- MAP 5336 - Ordinary Differential Equations and Applications **3 Credit Hours** and
- MAP 6356 - Partial Differential Equations **3 Credit Hours**

- MAA 6238 - Measure and Probability I **3 Credit Hours** and
- MAA 6245 - Measure and Probability II **3 Credit Hours**
- MAP 6111 - Mathematical Statistics **3 Credit Hours** and
- MAA 7239 - Asymptotic Methods in Mathematical Statistics **3 Credit Hours**
- MAA 6306 - Real Analysis **3 Credit Hours** and
- MAA 6506 - Functional Analysis **3 Credit Hours**

- MAS 5311 - Algebra I **3 Credit Hours** and
- MAS 6312 - Algebra II **3 Credit Hours**

- MAP 6195 - Mathematical Foundations for Massive Data Modeling and Analysis **3 Credit Hours** and
- MAP 6197 - Mathematical Introduction to Deep Learning **3 Credit Hours**

- MTG 5256 - Differential Geometry **3 Credit Hours** and
- MTG 6345 - Algebraic Topology **3 Credit Hours**

Unrestricted Electives—30-36 Credit Hours

Electives are chosen in consultation with the student's advisory committee and may be chosen from the suggested options: Discrete Mathematics, General Applied Mathematics, Mathematical Computer Tomography, Image Processing and Computer Graphics, Mathematical Finance, Mathematical Physics, Pure Mathematics, and Mathematical Statistics. A list of elective course options can be obtained from the graduate program director.

Courses taken outside the Mathematics department must be approved by the adviser and graduate program director. These courses are selected in consultation with the student's advisory committee.

Dissertation—15 Credit Hours Minimum

- XXXX 7980 Dissertation Research **15 Credit Hours** (minimum)

Qualifying Examination

The qualifying/comprehensive examination is based on the core course work (**MAA 5237** and MAS 5145 - Advanced Linear Algebra and Matrix Theory). To continue in the PhD program students must pass the examination at the PhD level. Two attempts are permitted. The examination will be administered twice a year: one in the Fall semester and the other in the Spring semester. To take the examination, students must have earned a "B" or better in each core course, must have a minimum grade point average of 3.0 (out of 4.0) in the program, or must obtain permission from the graduate program director. Students will normally take the examination after taking the core courses **MAA 5237 and MAS 5145**, and are expected to have passed it by the end of the second year of study unless a written request for a postponement has been approved by the Graduate Committee at least two months before the examination date. The student must pass the Qualifying Examination in at most two attempts.

It is strongly recommended that the student select a dissertation adviser by the completion of 18 credit hours of course work, and it is strongly recommended that the student works with the dissertation adviser to form a dissertation committee within two semesters of passing the Qualifying Examination.

Candidacy Examination

The Candidacy Examination consists of a written examination based on the materials from two of the selected two-semester sequence courses taken by the students beyond the core courses on Mathematical Analysis and Advanced

Linear Algebra ([MAA 5237](#), MAS 5145). A committee formed or selected by the Graduate Committee or the graduate program director is responsible for preparing and grading the written examinations.

After passing the candidacy examination and meeting other requirements, the student can register for Doctoral Dissertation (MAP 7980 or MAA 7980). A minimum of 15 Doctoral Dissertation credit hours are required. The Candidacy Examination can be attempted after passing the qualifying examination. The Candidacy Examination must be completed within three years after passing the qualifying examination. A student must successfully pass the Candidacy Examination within at most two attempts.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Dissertation Proposal Examination

After passing the candidacy examination, the student will prepare a dissertation proposal and orally present it to the dissertation advisory committee for approval. The proposal will include a description of the research performed to date and an agenda for the research planned to be completed for the dissertation. In addition to standards of correctness, indicating a suitable level of mastery of the material of the area of the dissertation, and suitability of the proposed dissertation topic, the presentation must meet current standards for professional presentations within the discipline of mathematics. For the successful completion of the Dissertation Proposal Examination the presentation must be judged as passing the requirements for the examination by the majority of the dissertation committee. This exam must be passed within 18 months of passing the candidacy examination and not later than the end of the sixth year of graduate study. A candidate must pass this examination within at most two attempts.

Dissertation Defense

Upon completion of a student's research, the student's committee schedules an oral defense of the dissertation. Most students complete the program within five years after obtaining their bachelor's degree. Students are expected to complete the dissertation in no more than seven years from the date of admission to the program.

Independent Learning

The required 15 credit hours of dissertation will provide ample opportunities for students to gain the independent learning experience through studying published research papers and deriving, on their own, new and meaningful research results.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in related field.
- Official, competitive GRE score, taken in the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of the program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Transfer of credits from other programs will be considered on a course-by-course basis. Additionally, students entering the graduate program with regular status are assumed to have a working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226). Students who are not adequately prepared in one or more of these areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, do not count toward the graduate degree.

Application Deadlines

Mathematics PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

The department offers over 20 Graduate Teaching Assistantships every year on a competitive basis. A few Graduate Research Assistantships are also available for qualified students.

Contact Info

Graduate Program

Qiyu Sun

Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Institution Codes

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Graduate Financial Aid

UCF Student Financial Assistance

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Mathematics PhD, Financial Mathematics Track

College: Sciences	Degree: PHD
Department: Mathematics	Option: Dissertation
Program Websites: https://math.cos.ucf.edu/graduate/	

Track Description

The Financial Mathematics track in the Mathematics PhD program is designed to prepare students for research and leadership positions in industry, government, non-governmental organizations, and academia requiring employment of financial mathematics.

Curriculum

The Mathematics PhD program consists of at least 75 credit hours of course work beyond the bachelor's degree, of which a minimum of 48 hours of formal course work, exclusive of independent study, are required. The program requires 36 credit hours of core courses and 15 credit hours of dissertation research (7980).

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—36 Credit Hours

The remaining credit hours consist of additional dissertation research (7980 or 7919), at least 15 credit hours of regular classroom elective courses, and at most 12 credit hours of independent study or independent directed research. Students who pass the qualifying examination may substitute some of the core courses with the approval of the adviser and the graduate program director.

All students are required to complete the following courses with grade of "B" or better.

- MAA 5237 - Mathematical Analysis **3 Credit Hours**
- MAS 5145 - Advanced Linear Algebra and Matrix Theory **3 Credit Hours**
- MAP 5641 - Financial Mathematics I **3 Credit Hours**
- MAP 6642 - Financial Mathematics II **3 Credit Hours**
- MAP 5612 - Computational Methods for Financial Mathematics I **3 Credit Hours**
- MAP 6616 - Computational Methods for Financial Mathematics II **3 Credit Hours**
- MAP 6646 - Risk Management for Financial Mathematics **3 Credit Hours**
- MAP 5606 - Differential Equations for Financial Mathematics **3 Credit Hours**
- MAP 6195 - Mathematical Foundations for Massive Data Modeling and Analysis **3 Credit Hours**
- MAP 6207 - Optimization Theory **3 Credit Hours**
- STA 6857 - Applied Time Series Analysis **3 Credit Hours**
- MAP 5931 - Proseminar for Financial Mathematics **1 Credit Hours**
- MAP 5933 - Seminar in Financial Mathematics **2 Credit Hours**

Elective Courses: 24 Credit Hours

Elective courses require the approval of the adviser and the graduate program director; up to 12 credit hours of elective courses may be taken outside the department. At least one-half of the program courses must be taken at the 6000 level. At least 12 hours of elective course work must be formal course work, exclusive of independent study.

Electives are chosen in consultation with the student's advisory committee and may be chosen from the suggested options: Discrete Mathematics, General Applied Mathematics, Mathematical Computer Tomography, Image Processing and Computer Graphics, Mathematical Finance, Mathematical Physics, Pure Mathematics, Data Science, and Mathematical Statistics. A list of elective course options can be obtained from the graduate program director.

Courses that are taken outside the Mathematics department must be approved by both the adviser and graduate program director. These courses are selected in consultation with the student's advisory committee.

Dissertation: 15 Credit Hours Minimum

After passing the candidacy examination and meeting the other requirements that are required for admission to candidacy, the student can register for Doctoral Dissertation (MAP 7980). A minimum of 15 Doctoral Dissertation credit hours are required for the degree.

- MAP 7980 - Dissertation Research **15 Credit Hours** (minimum)

Qualifying Examination

The qualifying/comprehensive examination is based on the core course work. To continue in the PhD program, students must pass the examination at the PhD level. Two attempts are permitted. The examination will be administered twice a year: one in the Fall semester and the other in the Spring semester. To take the examination, students must have earned a "B" or better in each core course, must have a minimum grade point average of 3.0 (out of 4.0) in the program, or must obtain permission from the graduate program director. Students will normally take the examination after the first year and are expected to have passed it by the end of the second year of study, unless a written request for a postponement has been approved by the Graduate Committee at least two months before the examination date. The student must pass the Qualifying Examination in at most two attempts.

It is strongly recommended that the student select a dissertation adviser by the completion of 18 credit hours of course work, and it is strongly recommended that the student works with the dissertation adviser to form a dissertation committee within two semesters of passing the Qualifying Examination.

Candidacy Examination

The Candidacy Examination consists of a written examination based on the materials from two selected two-semester sequence courses taken by the students. A committee formed or selected by the Graduate Committee or the graduate program director is responsible for preparing and grading the written examinations.

Each sequence that is selected for the candidacy examination must be approved by the dissertation adviser, the dissertation committee, and the graduate program director. Students in the Financial Mathematics Track will ordinarily select one of the sequences for their candidacy examination to be MAP 5641/MAP6642 Financial Mathematics I and II, and MAP5612/MAP6616 Computational Methods for Financial Mathematics I and II.

The Candidacy Examination can be attempted after passing the qualifying examination. The Candidacy Examination must be completed within three years after passing the qualifying examination. A student must successfully pass the Candidacy Examination within at most two attempts.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Dissertation Proposal Examination

After passing the candidacy examination, the student will prepare a dissertation proposal and orally present it to the dissertation advisory committee for approval. The proposal will include a description of the research performed to date and an agenda for the research planned to be completed for the dissertation. In addition to standards of correctness, indicating a suitable level of mastery of the material of the area of the dissertation, and suitability of the proposed dissertation topic, the presentation must meet current standards for professional presentations within the discipline of mathematics. For the successful completion of the Dissertation Proposal Examination, the presentation must be judged as passing the requirements for the examination by the majority of the dissertation committee. This exam must be passed within 18 months of passing the candidacy examination and not later than the end of the sixth year of graduate study. A candidate must pass this examination within at most two attempts.

Dissertation Defense

Upon completion of a student's research, the student's committee schedules an oral defense of the dissertation. Most students complete the program within five years after obtaining their bachelor's degree. Students are expected to complete the dissertation in no more than seven years from the date of admission to the program.

Independent Learning

The required 15 credit hours of dissertation will provide ample opportunities for students to gain the independent learning experience through studying published research papers and deriving, on their own, new and meaningful research results.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in related field.
- Official, competitive GRE score, taken in the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of the program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Transfer of credits from other programs will be considered on a course-by-course basis. Additionally, students entering the graduate program with regular status are assumed to have a working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), boundary value problems, statistics, computer programming, and maturity in the language of advanced calculus (at the level of MAA 4226). Students who are not adequately prepared in one or more of these areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, do not count toward the graduate degree.

Application Deadlines

Financial Mathematics	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	July 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

The department offers over 20 Graduate Teaching Assistantships every year on a competitive basis. A few Graduate Research Assistantships are also available for qualified students.

Contact Info

Graduate Program

Qiyu Sun

Professor

qiyu.sun@ucf.edu

Telephone: 407-823-4839

PO Box 161364

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Mechanical Engineering PhD

College: Engineering and Computer Science	Degree: PhD
Department: Mechanical and Aerospace Engineering	Option: Dissertation
Program Websites: http://www.mae.ucf.edu/	
Graduate Program Handbook	

Program Description

The Mechanical Engineering PhD program prepares students with an in-depth study and emphasis on research in Aerospace Systems, Mechanical Systems, or Thermofluids.

The Doctor of Philosophy degree in Mechanical Engineering is intended for students with a master's or a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline. The doctoral program is intended to allow students to study in-depth, with an emphasis on research in Aerospace Systems, Mechanical Systems, or Thermofluids.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-PhD.pdf>.

Curriculum

The Mechanical Engineering PhD program requires a minimum of 72 credit hours beyond a bachelor's degree. This program requires 15 dissertation credit hours minimum and may include up to a total of 12 credit hours combined of directed (XXX 6918) or doctoral research (XXX 7919) and/or of independent study (6908) with an approved Program of Study. At least 39 hours of the program of study must consist of formal coursework, exclusive of directed research (XXX 6918), doctoral research (XXX 7919) and independent study (XXX 6908). The rest of the hours can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the graduate program coordinator. Details about this program are located in the Mechanical Engineering PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students entering the program with a master's degree are required to complete 42 credit hours minimum, of which 15 credit hours minimum must be formal coursework, exclusive of directed research (XXX 6918), doctoral research (XXX 7919), and independent study (XXX 6908), and 15 credit hours minimum of dissertation research (XXX 7980). No more than 12 credit hours combined of directed (XXX 6918) or doctoral research (XXX 7919) and/or independent study (XXX 6908) may be taken toward fulfilling the degree program of study coursework requirements.

Students entering the program with a bachelor's degree are required to complete 72 credit hours minimum, of which 39 credit hours minimum must be formal course work, exclusive of directed research (XXX 6918), doctoral research (XXX 7919), and independent study (XXX 6908), and 15 credit hours minimum of dissertation research (XXX 7980). No more than 12 credit hours combined of directed (XXX 6918) or doctoral research (XXX 7919) and/or independent study (XXX 6908) may be taken toward fulfilling the degree program of study coursework requirements.

The rest of the hours in the PhD program can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the Graduate Coordinator. These credit hours may include doctoral directed research hours or doctoral dissertation hours.

Unless a completed (signed) program of study itemizing the study plan is approved prior to the end of the first semester of studies, the Graduate Director of the MMAE department may choose not to accept any part of the coursework (including independent studies and/or directed research) taken by the student on a program of study subsequently submitted by the student.

Admission to doctoral status requires that the student (1) pass a PhD Qualifying Examination, (2) establish a Doctoral Advisory Committee and (3) submit a departmentally approved Program of Study. These steps are normally completed within the first year of study beyond the master's degree.

Students must register for the seminar course a minimum of four times during their graduate career in the doctoral program. Students must complete the EML 5936 seminar course twice prior to taking the candidacy exam and twice after completing the candidacy exam. The students must also complete the course with a satisfactory (S) grade in all attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

- EML 5090 - Mechanical and Aerospace Seminar **0 Credit Hours**

Elective Courses: 57 Credit Hours

- May include up to a total of 12 credit hours combined of Directed (XXX 6918) or Doctoral Research (XXX 7919) and/or of Independent Study (6908)
- At least 45 credit hours must be formal coursework, exclusive of independent study, doctoral research and/or directed research.

Dissertation: 15 Credit Hours

- EML 7980 **15 Credit Hours** minimum

Examinations

In addition to the Qualifying Examination discussed above, the student must pass a Candidacy Examination and a Dissertation Defense Examination. The Candidacy Examination is taken near the end of the course work and consists of a written and oral presentation of a research proposal. The MMAE department requires that a PhD student submits his/her candidacy exam the academic semester immediately following his/her successfully passing the PhD Qualifying Exam. The Dissertation Defense Examination is an oral examination taken in defense of the written dissertation. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the

student's advisor and posted on the college's website and on the Events Calendar of the College of Graduate Studies website at least two weeks before the defense date.

More information on these examinations and other requirements of the PhD program are contained in the Mechanical Engineering PhD Handbook.

Dissertation Committee

The doctoral committee must consist of a minimum of five members: three must be graduate faculty members from within the student's department, and one must be at large from outside the Mechanical, Materials and Aerospace Engineering Department. The committee Chair must be a member of the graduate faculty approved to direct dissertations. Joint faculty members serve as department-faculty committee members as well as chairs of dissertation committees. Adjunct faculty and off-campus experts, if approved graduate faculty scholars, may serve as the outside-the-college person in the committee. Program areas may further specify additional committee membership. The UCF College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee, or appoint a co-adviser.

All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the advisory committee.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours (enrollment in dissertation hours begins the semester following the completion of these requirements). Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours.

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved Graduate Faculty and Graduate Faculty Scholars.
- Submission of an approved program of study.

Equipment Fee

Students in the Mechanical Engineering PhD program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

MAE Department Graduate Seminar Requirement

The MAE Graduate seminar is a zero (0) credit hour (S/U) course that is offered each fall and spring academic semesters. **Prior to graduation**, all MAE graduate students who are pursuing a PhD dissertation are required to register, participate, and receive a satisfactory (S) for four (4) semesters of MAE Graduate seminar, with at least two of these taken prior to candidacy.

Independent Learning

The Independent Learning Requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Bachelor's or Master's degree in Mechanical or Aerospace Engineering or a closely related discipline.
- Résumé.
- Statement about educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the graduate program director for more information.

Application Deadlines

Mechanical Engineering PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Khue Duong Rymer

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Modeling and Simulation PhD

College: Graduate Studies	Degree: PhD
Department: School of Modeling, Simulation, and Training	Option: Dissertation
Program Websites: https://msgrad.ist.ucf.edu	
Graduate Program Handbook	

Program Description

The UCF School of Modeling, Simulation, and Training (SMST) considers its degree programs as transdisciplinary, intended for those who wish to pursue a career in the fields of academia, government, military/defense, healthcare/medicine, entertainment, technology, education, or service/manufacturing. Most engineering or scientific fields use simulation as an exploration, modeling, or analysis technique. However, Modeling and Simulation is not limited to engineering and science, as it is also used in training, management, and concept exploration. These programs involve constructing human-centered, equipment-centered, and stand-alone computer-based models of existing and conceptual systems and processes.

UCF SMST sought feedback from industry practitioners to identify key competencies for students in our degree programs. This input has been critical to the development of our curriculum, which is designed to provide a broad overall perspective of the developing simulation industry and an awareness of the economic considerations. UCF SMST's objective is to provide education on evaluating the human, organization, equipment, and systems under study through the evaluation of output from the corresponding simulation construct. Alumni of SMST degree programs have both general and specialized skills in Modeling and Simulation.

Students in the Modeling and Simulation Ph.D. program are required to focus their study and research efforts in two areas of specialization. Students base their specialization on their academic and professional goals and determine these areas in consultation with their faculty adviser and the Modeling and Simulation graduate program director. Common areas of specialization are listed below (descriptions can be found at msgrad.ist.ucf.edu). This is not an exhaustive list, as the field continues to grow and evolve.

Behavioral Cybersecurity

Computer Visualization

Human Systems

Instructional and Training Simulation

Interactive Simulation and Intelligent Systems

Simulation in Government and Military

Simulation in Healthcare and Medicine

Simulation Infrastructure

Simulation Management

Simulation Modeling and Analysis

Curriculum

The Modeling and Simulation Ph.D. program requires a minimum of 72 credit hours beyond the bachelor's degree. This breaks down to 15 credits of required coursework, 42 credits of electives, and a minimum of 15 credits for the dissertation project. Students with a previously earned graduate degree may opt to waive up to 30 credits of electives in their plan of study. Please consult the program for more information about this.

At least 27 hours of the total program must consist of formal coursework, exclusive of independent study.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Master's Degree

Students may fulfill the restricted elective requirements through the courses chosen in the restricted core. Such students will meet the total credit hour requirements with additional unrestricted elective courses.

Required Courses: 15 Credit Hours

Core: 15 Credit Hours

- COT 6571 - Mathematical Foundations of Modeling and Simulation **3 Credit Hours**
- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours**
- IDS 6145 - Simulation Techniques **3 Credit Hours**
- IDS 6262 - Research Design for Modeling and Simulation **3 Credit Hours**
- IDS 6267 - Understanding Humans for Modeling and Simulation **3 Credit Hours**

Restricted Elective: 3 Credit Hours

Students must select an elective course taught by the Modeling and Simulation Graduate Program. Approved courses are listed below, but others may be used with the program director's approval.

- IDC 5602 - Cybersecurity: A Multidisciplinary Approach **3 Credit Hours**
- IDC 6601 - Behavioral Aspects of Cybersecurity **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- IDS 5142 - Modeling and Simulation for Instructional Design **3 Credit Hours**
- IDS 6146 - Modeling and Simulation Systems **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**
- IDS 6916 - Simulation Research Methods and Practicum **3 Credit Hours**

Unrestricted Electives: 39 Credit Hours

All Modeling and Simulation Ph.D. students must take at least 39 credits of unrestricted elective courses that reflect their two areas of specialization. Students are expected to carefully select electives with guidance from the program director and/or their faculty adviser.

The UCF SMST has identified and approved **over 175 courses** that students may choose as unrestricted electives. This list can be found at msgrad.ist.ucf.edu. New courses are developed at the university every semester, so this list is

updated once a semester. If a student identifies a course that will benefit their area of study but is not on the published list, they may request approval from the program director for inclusion in their plan of study.

Unrestricted electives must consist of at least 9 credit hours of formal courses, excluding independent study. The remaining credits may consist of additional coursework, directed research, independent study, and additional dissertation as advised appropriately by faculty adviser and/or program director.

Modeling and Simulation PhD Elective Courses

In addition to successfully completing the core courses for the M&S PhD program, students are required to carefully select electives with the guidance of a Program Director or faculty adviser. Elective choices should be made with the intent to strengthen a research interest and/or area of focus in order to meet the individual student's educational goals and objectives.

Listed below are suggested courses in various areas of focus or specialization. These course groupings are mere guides, are not exhaustive and are only meant to assist with advising and course selection in order to meet the individual student's educational goals and objectives. They are not intended to restrict elective choices among focus areas as we strongly encourage Modeling and Simulation students to maintain an interdisciplinary approach to their graduate studies.

If a student identifies another UCF course which may be of value to his/her M&S research area, but is not already identified in a list below, that student may request approval from the Graduate Program Director for the course to be used as an elective in the Graduate Plan of Study. All such requests must be made in advance of enrolling in the course.

Those electives categorized as "General" and "Fundamentals of Modeling and Simulation" would be appropriate for all students regardless of interest area. The remaining categories are grouped by area of interest.

General

- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6891 - IEMS Research Methods **3 Credit Hours**
- IDS 5907 - Independent Study **Variable**
- IDS 5917 - Directed Research **Variable**
- IDS 6908 - Independent Study **Variable**
- IDS 6918 - Directed Research **Variable**
- IDS 6946 - Internship **Variable**
- IDS 7919 - Doctoral Research **Variable**
- PHI 5340 - Research Methods in the Cognitive Sciences **3 Credit Hours**
- PSY 6216C - Research Methodology **4 Credit Hours**
- STA 5205 - Experimental Design **3 Credit Hours**

Fundamentals of Modeling and Simulation

- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6532 - Object-Oriented Simulation **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- IDS 6146 - Modeling and Simulation Systems **3 Credit Hours**
- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours**

- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**
- IDS 6950 - Modeling and Simulation Capstone Report Planning **1 Credit Hours**
- IDS 6145 - Simulation Techniques **3 Credit Hours**

Behavioral Cybersecurity

- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6135 - Malware and Software Vulnerability Analysis **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- CJE 6688 - Cyber Crime and Criminal Justice **3 Credit Hours**
- CNT 5008 - Computer Communication Networks Architecture **3 Credit Hours**
- CNT 5410L - Cyber Operations Lab **3 Credit Hours**
- CNT 6519 - Wireless Security and Forensics **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- EEL 6785 - Computer Network Design **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- EXP 5256 - Human Factors I **3 Credit Hours**
- EXP 6506 - Human Cognition and Learning **3 Credit Hours**
- IDC 5602 - Cybersecurity: A Multidisciplinary Approach **3 Credit Hours**
- IDC 6600 - Emerging Cyber Issues **3 Credit Hours**
- IDC 6601 - Behavioral Aspects of Cybersecurity **3 Credit Hours**
- IDS 6916 - Simulation Research Methods and Practicum **3 Credit Hours**
- INR 6365 - Seminar on Intelligence **3 Credit Hours**
- INR 6366 - The Intelligence Community **3 Credit Hours**
- PHI 6938 - ST: Digital Ethics **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 5825 - Stochastic Processes and Applied Probability Theory **3 Credit Hours**

Human Systems

- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- DIG 6432 - Transmedia Story Creation **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**
- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 6215 - System Safety Engineering and Management **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EME 6458 - Virtual Teaching and the Digital Educator **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- EME 6646 - Instructional Game Design for Training and Education **3 Credit Hours**
- EXP 5208 - Sensation and Perception **3 Credit Hours**
- EXP 5256 - Human Factors I **3 Credit Hours**
- EXP 6255 - Human Performance **3 Credit Hours**

- EXP 6257 - Human Factors II **3 Credit Hours**
- EXP 6258 - Human Factors III **3 Credit Hours**
- EXP 6506 - Human Cognition and Learning **3 Credit Hours**
- EXP 6541 - Advanced Human Computer Interaction **3 Credit Hours**
- IDS 6148 - Human Systems Integration for Modeling and Simulation **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**
- PHI 5225 - Philosophy of Language **3 Credit Hours**
- PHI 5325 - Topics in Philosophy of Mind **3 Credit Hours**
- PHI 5327 - Topics in the Cognitive Sciences **3 Credit Hours**
- PHI 5329 - Philosophy of Neuroscience **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**
- TTE 6270 - Intelligent Transportation Systems **3 Credit Hours**

Computer Visualization

- CAP 5725 - Computer Graphics I **3 Credit Hours**
- CAP 6411 - Computer Vision Systems **3 Credit Hours**
- CAP 6412 - Advanced Computer Vision **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- DIG 6605 - Physical Computing **3 Credit Hours**
- DIG 6647 - History and Theory of Dynamic Media **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EEL 6843 - Machine Perception **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- MAP 5117 - Mathematical Modeling **3 Credit Hours**
- MAP 6118 - Introduction to Nonlinear Dynamics **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**

Quantitative Methods for Simulation, Modeling and Analysis

- CAP 5512 - Evolutionary Computation **3 Credit Hours**
- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- ESI 5306 - Operations Research **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**

- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- MAP 5117 - Mathematical Modeling **3 Credit Hours**
- MAP 6111 - Mathematical Statistics **3 Credit Hours**
- MAP 6118 - Introduction to Nonlinear Dynamics **3 Credit Hours**
- MAP 6207 - Optimization Theory **3 Credit Hours**
- MAP 6385 - Applied Numerical Mathematics **3 Credit Hours**
- MAP 6407 - Integral Equations and the Calculus of Variations **3 Credit Hours**
- MAP 6408 - Perturbations and Asymptotic Methods **3 Credit Hours**
- MAP 6445 - Approximation Techniques **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 5825 - Stochastic Processes and Applied Probability Theory **3 Credit Hours**
- STA 6236 - Regression Analysis **3 Credit Hours**
- STA 6246 - Linear Models **3 Credit Hours**
- STA 6326 - Theoretical Statistics I **3 Credit Hours**
- STA 6327 - Theoretical Statistics II **3 Credit Hours**
- STA 6329 - Statistical Applications of Matrix Algebra **3 Credit Hours**
- STA 6704 - Data Mining Methodology II **3 Credit Hours**
- STA 6714 - Data Preparation **3 Credit Hours**

Simulation in Healthcare

- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- DIG 6647 - History and Theory of Dynamic Media **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- HUM 5802 - Applied Contemporary Humanities **3 Credit Hours**
- NGR 6717 - Introduction to Healthcare Simulation **3 Credit Hours**
- NGR 6771L - Healthcare Simulation Practicum **VAR Credit Hours**
- NGR 6794 - Organizational Leadership and Operations in Healthcare Simulation **3 Credit Hours**
- NGR 6978 - Healthcare Simulation Capstone Project **3 Credit Hours**
- PHI 5329 - Philosophy of Neuroscience **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**
- SPA 6417 - Cognitive/Communicative Disorders **3 Credit Hours**

Interactive Simulation and Intelligent Systems

- CAP 5512 - Evolutionary Computation **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 5636 - Advanced Artificial Intelligence **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**

- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EME 6613 - Instructional System Design **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**

Simulation Infrastructure

- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 6107 - Parallel Computer Architecture **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- CNT 5008 - Computer Communication Networks Architecture **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- DIG 6605 - Physical Computing **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**
- EEL 6785 - Computer Network Design **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**

Simulation Management

- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- EIN 5140 - Project Engineering **3 Credit Hours**
- EIN 5356 - Cost Engineering **3 Credit Hours**
- EIN 6182 - Engineering Management **3 Credit Hours**
- EIN 6215 - System Safety Engineering and Management **3 Credit Hours**
- EIN 6339 - Operations Engineering **3 Credit Hours**
- EIN 6357 - Advanced Engineering Economic Analysis **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- ESI 5227 - Total Quality Improvement **3 Credit Hours**
- ESI 6224 - Quality Management **3 Credit Hours**
- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**

Waived Credits

The doctoral program will allow up to 30 credit hours to be waived from an earned master's degree.

Dissertation: 15 Credit Hours Minimum

Before entering the dissertation portion of the degree program, a student must successfully complete the qualifying examination and candidacy examination milestones. More information for both examinations can be found at msgrad.ist.ucf.edu.

- XXX 7980 - Dissertation Research **15 Credit Hours** minimum

Plan of Study

After admission to the Modeling and Simulation Ph.D. program and before the end of the third term of enrollment, students must submit a Graduate Plan of Study (GPS) to the Modeling and Simulation Graduate Program office. The GPS helps the student design an appropriate program of coursework to support the student's educational needs, goals, and objectives. The GPS should be developed in concert with the student's faculty adviser or (if adviser is not yet identified) program director and form a unified cohesive strategy for degree completion. All doctoral program credit must be at the 5000-level or higher, with a minimum of 50% at the 6000- or 7000-level.

Students are eligible to make changes to their Graduate Plan of Study at any time, with the approval of their faculty adviser and the Modeling and Simulation Graduate Program.

Equipment Fee

Full-time students in the Modeling and Simulation PhD program pay a \$27 equipment fee each semester that they are enrolled. Part-time students pay a \$13.50 equipment fee each semester that they are enrolled.

Milestones

In addition to their coursework, all Modeling and Simulation Ph.D. students are required to successfully complete three milestones before the award of their degree: qualifying examination; candidacy examination; and dissertation defense.

Qualifying Examination

Students are eligible to complete the SMST Qualifying Examination (QE) requirement once they complete their core coursework. The QE consists of a written paper and oral presentation to a faculty evaluation committee. Information and protocol regarding the QE can be found at msgrad.ist.ucf.edu.

Candidacy Examination

Students are eligible to complete the SMST Candidacy Examination (CE) requirement once they successfully complete the QE; are within 6 credits of completing all coursework (i.e., completed at least 51 credits of coursework); have an approved up-to-date GPS on file with the graduate program; and have an advisory committee (approved by the College of Graduate Studies) on file.

The CE consists of:

- Dissertation research proposal

- Oral defense of the dissertation research proposal

Refereed published (or accepted for publication) manuscript on the student's dissertation topic

Detailed information and protocol regarding the CE can be found at msgrad.ist.ucf.edu

Dissertation Adviser and Advisory Committee

Students are responsible for selecting an adviser from a list of faculty members authorized to direct dissertations to serve as the chair of their advisory committee. Then, in concert with their adviser, the student must identify and select the remaining members of the advisory committee. The advisory committee must contain a minimum of four members (chair plus three members). All committee members must hold a terminal degree and be in fields related to the student's dissertation topic. At least three members, including the chair, must be classified as Modeling and Simulation graduate faculty. These faculty members must be from (or represent) at least two different colleges. At least one member must have served as a committee member on a prior SMST advisory committee. With approval from the Modeling and Simulation Graduate Program Director, a committee member may serve as a committee's co-chair.

The UCF College of Graduate Studies, as well as UCF SMST, reserve the right to review appointments to advisory committees; place a representative on any advisory committee; or appoint a co-adviser.

Admission to Candidacy

Students who fulfill all the requirements for the candidacy examination and have an approved advisory committee on file will be admitted to candidacy and authorized to enroll for dissertation hours.

Dissertation Defense

The dissertation defense is a formal oral presentation of the written dissertation before the student's advisory committee. All dissertation defenses are announced in advance and open to the public. Committee members vote either "Pass" or "Fail" of the written dissertation and oral defense. The dissertation and its defense must be approved by a majority vote, with no more than one dissenting vote. Normally, students are granted one opportunity to pass the dissertation defense. In extenuating circumstances and at the discretion of the Modeling and Simulation Graduate Program Director, a student may be allowed one additional attempt to pass the dissertation defense (no more than two attempts will be allowed).

Time to Completion

Students are granted 7 years (21 semesters) from the term of admission to complete their degree program. Failure to comply with the "7-Year Rule" may result in dismissal from the program, and may require reapplication to the program as well as repeating coursework and other program requirement.

Independent Learning

The dissertation is an independent project completed under the guidance of a student's faculty advisory committee. All research, data collection and analysis, and writing of the project are completed by the student, creating a challenging and fulfilling independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- An official, competitive score on the GRE taken within the last five years
- Résumé or Curriculum Vitae
- Goal statement
 - The goal statement should discuss all relevant professional background and any previous research experience.
 - The statement should:
 - Explain the motivation behind the pursuit of a Doctoral degree in Modeling and Simulation.
 - Discuss future career goals after the completion of the applicant's doctoral study.
 - *Clearly* describe the particular area(s) of research interest, including the identification of at least one UCF faculty member with a similar research focus who could serve as a potential advisor.
 - The goal statement should be between 500 and 1,000 words.
- Three letters of recommendation
 - The letters of recommendation should:
 - Be from faculty members, university administrators, and employers (at least two letters should be furnished by college/university faculty who are acquainted with the applicant).
 - Be current to the application.
 - Address the educational and career goals of the applicant.
 - *Clearly* address the applicant's ability to perform graduate-level study and research.
 - The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program.

Applications are accepted term only.

Readmission

The UCF SMST Graduate Programs will consider applications for readmission from students who have been dismissed and/or deactivated from its degree programs. Those interested in readmission **MUST** consult the Modeling and Simulation Graduate Program Director prior to their application to determine their eligibility to reapply and the requirements for their application.

Prerequisites

Though UCF SMST does not have a mandated prerequisite for its graduate programs, the most successful students are those who have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer literacy, preferably, familiarity with at least one higher order programming language (e.g., Python, C/C++, Visual Basic, Java, etc.). Students with undergraduate or graduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

Students without this background are encouraged to select the elective course IDC 5570 (Introductory Mathematics for Modeling and Simulation). This course will prepare them for the required core course COT 6571 (Mathematical Foundations of Modeling and Simulation).

Application Deadlines

Modeling and Simulation PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Charlie Hughes, PhD

Interim Program Director
charles.hughes@ucf.edu
Telephone: 407-882-1344
Partnership 3 Building, Room 109

Kirsten Seitz

Kirsten.Seitz@ucf.edu
Telephone: 407-882-1407
Partnership 2 Building, Room 131D

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nursing PhD ►

College: Nursing	Degree: PhD
Department: Nursing	Option: Dissertation
Program Websites: http://www.nursing.ucf.edu/	
Graduate Program Handbook	

Program Description

The Doctor of Philosophy program in Nursing is designed to prepare students for positions as nursing faculty members, leaders in the application of innovative technologies to nursing education and clinical care, executive leaders in healthcare systems, and scientists who contribute to the body of nursing knowledge through their research.

The PhD in Nursing program prepares nurse scholars to possess a body of knowledge about theory, processes, and methods of inquiry in the discipline of nursing. The program allows students to contribute to disciplinary and interdisciplinary knowledge in nursing and healthcare on the basis of sound conceptual, methodological, and ethical decision-making.

Program Outcomes

At the completion of the PhD in Nursing Program, graduates will be able to:

- Conduct research to generate a body of knowledge and test theories that advance nursing science.
- Develop a program of scholarship that integrates research, teaching, leadership, and service to the profession.
- Contribute to interdisciplinary solutions that advance health care in a global society.

Please note: Nursing (PhD) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Program Tracks

- Nursing PhD, BSN to PhD Track ►

Curriculum

For the Nursing PhD, total graduate credit must equal or exceed 72 credit hours. Students take 39 credit hours of required courses that focus on foundation knowledge development and research methods, 15 dissertation credit hours, and 9 credit hours of electives allowing students to gain additional expertise in the area chosen for their dissertation. Details about this program are located in the Nursing PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students in the Nursing PhD program must complete all course work with GPA of 3.0 ("B") or better, a satisfactory dissertation and defense of dissertation.

Required Courses—39 Credit Hours

Foundation Areas—9 Credit Hours

- NGR 7115 - Philosophical and Ethical Foundations of Nursing Science **3 Credit Hours**
- NGR 7123 - Theory in Nursing Science **3 Credit Hours**
- NGR 7952 - Scientific Writing for Nurses and Healthcare Professionals **3 Credit Hours**

Research Methods—30 Credit Hours

- NGR 7815 - Qualitative Methods in Nursing Research and Healthcare I **3 Credit Hours**
- NGR 7916 - Research Grants Process and Proposal Writing **3 Credit Hours**
- NGR 7817 - Quantitative Methods for Nursing and Healthcare I **3 Credit Hours**
- NGR 7818 - Quantitative Methods for Nursing and Healthcare II **3 Credit Hours**
- NGR 7932 - Nursing Research Grants Process and Proposal Writing **3 Credit Hours**
- NGR 7807 - Research Approaches and Designs for Nursing and Healthcare **3 Credit Hours**
- NGR 7812 - Advanced Study Design and Methods **3 Credit Hours**
- NGR 7823 - Psychometrics and Measurement for Nursing Research **3 Credit Hours**
- NGR 7919 - Doctoral Research **Credit Hours**

Elective Courses—9 Credit Hours Minimum

The supporting course work is designed to permit students to gain additional expertise and knowledge in the area chosen for the dissertation. These courses may vary from student to student depending upon individual needs or objectives. Course selection should be influenced by the following criteria:

- Increase in understanding of the phenomenon of interest
- Increase in understanding of specific methodologies or analytical techniques relevant to the student's dissertation.
- Exposure to experiences relevant to the phenomenon of interest or methodological elements relevant to the student's dissertation.

The UCF College of Nursing strongly encourages all PhD students to actively seek out interdisciplinary supporting courses including those offered by other disciplines. All supporting courses must be approved by the student's faculty adviser or dissertation committee chairperson.

Dissertation Research—15 Credit Hours Minimum

The dissertation research addresses the design and conduct of research that advances nursing science. Students conduct the dissertation in areas of faculty interest and expertise. Students are required to complete at least 15 credit hours of dissertation and are required to register for 3 credit hours of dissertation each semester until they complete the degree requirements.

- NGR 7980 - Dissertation Research **15 Credit Hours**

Doctoral Research

The course NGR 7919 Doctoral Research is designed for students to gain research experience with a faculty researcher. Students must obtain permission from the faculty member before registering for this course and complete the College of Nursing doctoral research form. The purpose of this course is for students to have an experience with research in addition to that of the dissertation. This course is not to be used as a pilot study for the student's dissertation.

Admission to Candidacy and Examinations

The process for candidacy will start with the appointment of the full dissertation advisory committee including the external member. The Candidacy Examination has both written and oral components. When these are completed successfully, the student becomes a doctoral candidate and is eligible to enroll in dissertation credits. When candidacy status is obtained, the student must enroll in at least three-semester credits of dissertation credit each semester until successful oral defense of the dissertation is made and all graduation requirements are completed. The university requires a minimum of 15 dissertation credits. Post-candidacy status is subject to the rules and regulations of the University of Central Florida Graduate Catalog.

The following are required to enroll in dissertation hours. Evidence that items have been completed must be received by the UCF Graduate College on the Friday before the first day of classes for those who wish to enroll in dissertation hours in that semester:

- Completion of all coursework, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty, graduate faculty scholars, and the approved external member.
- Submittal of an approved program of study (should be finalized by the student's third semester).

Equipment Fee

Full-time students in the Nursing PhD program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and either MSN or Master's degree in a related field from an accredited institution or the equivalent.
- Licensure as a Registered Nurse in the state of Florida.
- Official, competitive GRE score taken within the last five years. This is optional for students who have previously completed a terminal degree in the same or related area (e.g., DNP or EdD).
- An essay of no more than 500 words addressing goals for doctoral study to knowledge development for Nursing.
- A personal interview.
- Research interests that match faculty expertise.
- Resume/Curriculum Vitae which reflects prior education, recent clinical accomplishments, any scholarly work (publications and presentations), and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Three letters of recommendation evaluating the potential for doctoral study preferably by nursing instructors, nurse employers or nurses with advanced degrees.

The College of Nursing accepts the most qualified students based on evaluations of the applicant's abilities, past performance, recommendations and match of UCF programs with the applicant's career goals. Students are admitted to the program in the summer for the program of study.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Please call the College of Nursing Graduate Office (407) 823-0133 to speak with a doctoral adviser to discuss your goals for doctoral study. It would be very advantageous to discuss the program before you write your essay in the admission application.

Application Deadlines

Nursing PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Steven Talbert PhD, RN
Clinical Assistant Professor
steven.talbert@ucf.edu
Telephone: 407-823-2888
UTWR 431

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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PO Box 160112
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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nursing PhD, BSN to PhD Track ►

College: Nursing	Degree: PhD
Department: Nursing	Option: Dissertation
Program Websites: https://nursing.ucf.edu/admissions/graduate-programs/index	
Graduate Program Handbook	

Track Description

The Doctor of Philosophy program in Nursing is designed to prepare students for positions as nursing faculty members, leaders in the application of innovative technologies to nursing education and clinical care, executive leaders in healthcare systems, and scientists who contribute to the body of nursing knowledge through their research. The BSN to PhD track is designed to support students in completing the PhD in a timely fashion to provide for a longer research career.

The PhD in Nursing program prepares nurse scholars to possess a body of knowledge about theory, processes, and methods of inquiry in the discipline of nursing. The program allows students to contribute to disciplinary and interdisciplinary knowledge in nursing and healthcare on the basis of sound conceptual, methodological, and ethical decision-making. Students in the BSN to PhD track will have focused support in grant writing for programs such as the National Research Service Award (NRSA). Although courses will be offered online, students are expected to actively engage in research activities with faculty, which may require on-campus time.

Program Outcomes

At the completion of the PhD in Nursing Program, graduates will be able to:

- Conduct research to generate a body of knowledge and test theories that advance nursing science.
- Develop a program of scholarship that integrates research, teaching, leadership, and service to the profession.
- Contribute to interdisciplinary solutions that advance health care in a global society.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

The Nursing BSN to PhD program requires a minimum of 72 credit hours beyond a bachelor's degree in Nursing. This program includes 42 credit hours of required courses that focus on foundation knowledge development and research methods, 15 dissertation credit hours, and 15 credit hours of electives allowing students to gain additional expertise in the area chosen for their dissertation. Details about this program are located in the Nursing PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students in the Nursing BSN to PhD program must complete all course work with GPA of 3.0 ("B") or better, a satisfactory dissertation and defense of dissertation.

Required Courses—42 Credit Hours

Foundation Areas—9 Credit Hours

- NGR 7952 - Scientific Writing for Nurses and Healthcare Professionals **3 Credit Hours**
- NGR 7115 - Philosophical and Ethical Foundations of Nursing Science **3 Credit Hours**
- NGR 7123 - Theory in Nursing Science **3 Credit Hours**

Research Methods—33 Credit Hours

- NGR 7807 - Research Approaches and Designs for Nursing and Healthcare **3 Credit Hours**
- NGR 7815 - Qualitative Methods in Nursing Research and Healthcare I **3 Credit Hours**
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- NGR 7932 - Nursing Research Grants Process and Proposal Writing **3 Credit Hours**
- NGR 7919 - Doctoral Research **Credit Hours**

Elective Courses—15 Credit Hours Minimum

Students must take three courses (9 credit hours) of supporting course work. The supporting course work is designed to permit students to gain additional expertise and knowledge in the area chosen for the dissertation. These courses may vary from student to student depending upon individual needs or objectives. Course selection should be influenced by the following criteria:

- Increase in understanding of the phenomenon of interest
- Increase in understanding of specific methodologies or analytical techniques relevant to the student's dissertation.
- Exposure to experiences relevant to the phenomenon of interest or methodological elements relevant to the student's dissertation.

The UCF College of Nursing strongly encourages all PhD students to actively seek out interdisciplinary supporting courses including those offered by other disciplines.

In addition to supporting courses, students will select two elective courses (6 credits) to broaden their knowledge in a general topical area.

All elective and supporting courses must be approved by the student's faculty adviser or dissertation committee chairperson.

Dissertation Research—15 Credit Hours Minimum

The dissertation research addresses the design and conduct of research that advances nursing science. Students conduct the dissertation in areas of faculty interest and expertise. Students are required to complete at least 15 credit hours of

dissertation and are required to register for 3 credit hours of dissertation each semester until they complete the degree requirements.

- NGR 7980 - Dissertation Research **15 Credit Hours**

Doctoral Research

The course NGR 7919 Doctoral Research is designed for students to gain research experience with a faculty researcher. Students must obtain permission from the faculty member before registering for this course and complete the College of Nursing doctoral research form. The purpose of this course is for students to have an experience with research in addition to that of the dissertation.

Admission to Candidacy and Examinations

The process for candidacy will start with the appointment of the dissertation advisory committee. The Candidacy Examination has both written and oral components. When these are completed successfully, the student becomes a doctoral candidate and is eligible to enroll in dissertation credits. When candidacy status is obtained, the student must enroll in at least three-semester credits of dissertation credit each semester until successful oral defense of the dissertation is made and all graduation requirements are completed. The university requires a minimum of 15 dissertation credits. Post-candidacy status is subject to the rules and regulations of the University of Central Florida Graduate Catalog.

Students are required to complete the following prior to scheduling their candidacy examination:

- Submittal of an approved program of study (should be finalized by the student's third semester).
- Completion of all coursework, except for dissertation hours.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.

Following successful completion of the candidacy examination, the student may enroll in dissertation hours. Evidence that items have been completed must be received by the Graduate College on the Friday before the first day of classes for those who wish to enroll in dissertation hours in that semester.

Equipment Fee

Full-time students in the Nursing PhD program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.

- A Bachelor's Degree in nursing from an accredited institution or the equivalent.
- Licensure as a Registered Nurse in the state of Florida. (Does not apply to international applicants).
- Official, competitive GRE score taken within the last five years.
- An essay of no more than 500 words addressing goals for doctoral study to knowledge development for Nursing.
- A personal interview.
- Research interests that match faculty expertise.
- Resume/Curriculum Vitae which reflects prior education, recent clinical accomplishments, any scholarly work (publications and presentations), and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Three letters of recommendation evaluating the potential for doctoral study preferably by nursing professors, nurse employers or nurses with advanced degrees.

The College of Nursing accepts the most qualified students based on evaluations of the applicant's abilities, past performance, recommendations and match of UCF programs with applicant's career goals. Students are admitted to the program in the summer for the program of study.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Please call the College of Nursing Graduate Office (407) 823-0133 to speak with a doctoral adviser to discuss your goals for doctoral study. It would be very advantageous to discuss the program before you write your essay in the admission application.

Application Deadlines

BSN to PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

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finaid@ucf.edu
<http://finaid.ucf.edu>

Nursing Practice DNP

College: Nursing	Degree: DNP
Department: Nursing	
Program Websites: http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index	
Graduate Program Handbook	

Program Description

The Doctor of Nursing Practice (DNP) program prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP Project.

The program offers five tracks: Adult/Gerontology Acute Care Nurse Practitioner, Adult/Gerontology Primary Care Nurse Practitioner, Family Nurse Practitioner, Advanced Practice DNP, and Nurse Executive DNP.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

Note for International Students: Please contact the College of Nursing at gradnurse@ucf.edu or 407-823-2744 prior to applying to this online program.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/licensure-programs/>.

Program Tracks

- Nursing Practice DNP, Adult-Gerontology Acute Care Nurse Practitioner Track
- Nursing Practice DNP, Adult-Gerontology Clinical Nurse Specialist Track
- Nursing Practice DNP, Adult-Gerontology Primary Care Nurse Practitioner Track
- Nursing Practice DNP, Advanced Practice Track ►
- Nursing Practice DNP, Executive Track ►
- Nursing Practice DNP, Family Nurse Practitioner Track

Curriculum

The Doctor of Nursing Practice (DNP) curriculum requirements vary according to the track chosen by the student. Please see the information for each track. Additional details about this program are located in the Nursing DNP Handbook.

Students will take course work corresponding to the eight essential competencies delineated by the American Association of Colleges of Nursing (AACN). The competencies address the following:

1. Scientific underpinning for practice
2. Organizational and systems leadership for quality improvement and systems thinking
3. Clinical scholarship and analytical methods for evidence-based practice
4. Information systems/technology and patient care technology for the improvement and transformation of health care
5. Health care policy for advocacy in health care
6. Inter-professional collaboration for improving patient and population health outcomes
7. Clinical prevention and population health for improving the nation's health
8. Advanced nursing practice

DNP Project: 6-9 Credit Hours

The DNP Project is the product of the culminating or comprehensive experience of an independent project that demonstrates application of advanced clinical and evidence-based practice. The DNP Project is guided and evaluated by an academic committee and is derived from the practice immersion experience (residency). It will serve as a foundation for future scholarly practice.

The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to:

- Translate research into practice and evaluate outcomes
- Quality improvement (care processes, continuity of care, patient outcomes)
- Implement and evaluate evidence-based practice guidelines
- Analyze policy: develop, implement, evaluate, or revise policy

- Design and use databases to retrieve information for decision making, planning, evaluation
- Conduct financial analyses to compare care models and potential cost savings, etc.
- Design and evaluate new models of care
- Design and evaluate health promotion and disease prevention programs
- Assess integration of technology in care

The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

Progress to Degree

Students are required to maintain a 3.0 grade point average. Grades below B are not acceptable in the doctoral program in the College of Nursing. Students who receive a grade of below B in any course are subject to dismissal from the DNP program and will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Equipment Fee

Full-time students in the Nursing Practice DNP program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Valerie Martinez, DNP, APRN, CPNP-PC

Clinical Assistant Professor

Valerie.Martinez@ucf.edu

Telephone: 407-823-5024

UTWR 459

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance
 Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
 http://finaid.ucf.edu

Nursing Practice DNP, Adult-Gerontology Acute Care Nurse Practitioner Track

College: Nursing	Degree: DNP
Department: Nursing	
Program Websites: http://www.nursing.ucf.edu	
Graduate Program Handbook	

Track Description

The Doctor of Nursing Practice (DNP) program in the Adult-Gerontology Acute Care Nurse Practitioner Track prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP project.

The Adult-Gerontology Acute Care Nurse Practitioner Track prepares the advanced practice nurse to care for patients with medically complex stable and unstable acute, critical and chronic illnesses across care settings ranging from hospitals to subacute, ambulatory care, clinic and home care environments at the DNP level, incorporating DNP essentials in practice with a culminating DNP project.

Graduates of this program are eligible to sit for the Adult-Gerontology Acute Care Nurse Practitioner (AGACNP) National Board Certification Examination offered by the American Nurses Credentialing Center or the Acute Care Nurse Practitioner-Adult Gerontology (ACNP-AG) National Board Certification Examination offered by the American Association of Critical Care Nurses. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Acute-Care-DNP.pdf>.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.

- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

Curriculum

The DNP Adult-Gerontology Acute Care Nurse Practitioner track requires a minimum of 76 credit hours beyond the baccalaureate degree. The curriculum includes 39 credits of core courses shared with other DNP tracks, 14 credits of APN core and 23 credits of specialty courses. A total of 1,080 practicum hours are required to earn the DNP. The program prepares nurses at the entry level for advanced practice for the current healthcare system based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis; and provides analytic, critical thinking and diagnostic reasoning skills to examine practice innovations involving completion of the residency project during the clinical residency courses. Details about this program are in the Advanced Practice DNP Handbook.

Total Credit Hours Required: 76 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses—9 Credit Hours

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Advanced Practice Core Courses—14 Credit Hours

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 Lab Hours)
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 6063L - Advanced Skills for the Management of Illness and Injuries **2 Credit Hours** (120 Lab Hours)

Specialty Courses: Adult-Gerontology Acute Care Nurse Practitioner—23 Credit Hours

- NGR 6210 - Adult-Gerontology Acute Care Nurse Practitioner I **3 Credit Hours**
- NGR 6230L - Diagnostics and Skills for the Critically Ill **2 Credit Hours** (120 clinical hours)
- NGR 6211 - Adult-Gerontology Acute Care Nurse Practitioner II **3 Credit Hours**

- NGR 6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6175 - Critical Care Pharmacology **3 Credit Hours**
- NGR 6212 - Adult-Gerontology Acute Care Nurse Practitioner III **3 Credit Hours**
- NGR 6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum **3 Credit Hours** (180 clinical hours)

DNP Core Courses—39 Credit Hours

- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6874 - Nursing Environment Management **3 Credit Hours**
- NGR 7673 - Epidemiology Principles in Advanced Practice Nursing **3 Credit Hours**
- NGR 7793 - Leadership and Economics in Advanced Practice Nursing **3 Credit Hours**
- NGR 7827 - Concepts, Measurement, and Data Management **3 Credit Hours**
- NGR 7820 - Innovative Technologies in Healthcare **3 Credit Hours**
- NGR 7892 - Healthcare Systems and Policy **3 Credit Hours**
- NGR 7855C - Evidence-Based Practice Development for DNP **3 Credit Hours**
- NGR 7065 - Advanced Clinical Management for Advanced Practice Nursing **3 Credit Hours**
- NGR 7911C - Doctoral Project I **3 Credit Hours** (60 clinical hours)
- NGR 7912C - Doctoral Project 2 **3 Credit Hours** (120 clinical hours)
- NGR 7913 - Doctoral Project 3 **3 Credit Hours**

DNP Project

The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to:

- Translate research into practice and evaluate outcomes
- Quality improvement (care processes, continuity of care, patient outcomes)
- Implement and evaluate evidence-based practice guidelines
- Analyze policy: develop, implement, evaluate or revise policy
- Design and use databases to retrieve information for decision making, planning, evaluation
- Conduct financial analyses to compare care models and potential cost savings, etc.
- Design and evaluate new models of care
- Design and evaluate health promotion and disease prevention programs
- Assess integration of technology in care

The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade below "B" in any course will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades

of below "B" are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Current certification as an advanced cardiac life support (ACLS) and basic life support (BLS) provider.
- Address the following 3 items in a written essay. Responses to questions should not exceed 1 page, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
 - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
 - The final DNP project focuses on implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae: CV should reflect prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student
- Requires 3 professional recommendations
- An interview with faculty may also be required.

*For Students with an RN license and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu or 407-823-2744 for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is

advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Upon admission to the program student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Adult-Gerontology Acute Care Nurse Practitioner	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Christopher Blackwell PhD, APRN, ANP-BC, AGACNP-BC, CNE, FAANP, FAAN

Associate Professor

christopher.blackwell@ucf.edu

Telephone: 407-823-2744

UTWR 453

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Nursing Practice DNP, Adult-Gerontology Primary Care Nurse Practitioner Track

College: Nursing	Degree: DNP
Department: Nursing	
Program Websites: http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index	
Graduate Program Handbook	

Track Description

The Doctor of Nursing Practice (DNP) program in the Adult/Gerontology Primary Care Nurse Practitioner Track prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP project.

The DNP Adult/Gerontology Primary Care Nurse Practitioner Track prepares students to care for primary care patients from adolescence through old age in primary care and home care settings, incorporating DNP essentials in practice with a culminating DNP project. Graduates of this program are eligible to sit for the Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Primary-Care-DNP.pdf>.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

Curriculum

The DNP Adult/Gerontology Primary Care Nurse Practitioner track requires a minimum of 72 credit hours beyond the baccalaureate degree. The curriculum includes 39 credits of core courses shared with other DNP tracks, 14 credits of APN core and 19 credits of specialty courses. A total of 1,080 practicum hours are required to earn the DNP. The program prepares nurses at the entry level for advanced practice for the current healthcare system based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis; and provides analytic, critical thinking and diagnostic reasoning skills to examine practice

innovations involving completion of the residency project during the clinical residency courses. Details about this program are located in the Advanced Practice DNP Adult-Gerontology DNP Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses—9 Credit Hours

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Advanced Practice Core Courses—14 Credit Hours

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 clinical hours)
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 6063L - Advanced Skills for the Management of Illness and Injuries **2 Credit Hours** (120 clinical hours)

Specialty Courses: Adult/Gerontology Nurse Practitioner—19 Credit Hours

- NGR 6201 - Adult I Primary Care **3 Credit Hours**
- NGR 6240L - Adult I Clinical for APNs **3 Credit Hours** (180 clinical hours)
- NGR 6202L - Adult II Primary Care Clinical **3 Credit Hours** (180 Clinical Hours)
- NGR 6334 - Women's Health for APNs **2 Credit Hours**
- NGR 6263 - Gerontologic Care for APNs **3 Credit Hours**
- NGR 6263L - Gerontologic Care Clinical for NPs **2 Credit Hours** (120 clinical hours)
- NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum **3 Credit Hours** (180 clinical hours)

DNP Core Courses—39 Credit Hours

The DNP courses serve to enhance the skill and science base of the graduate and strengthen the focus on research utilization. Safety and efficiency in health care systems is addressed and organizational and policy implications are emphasized within the context of care delivery. An emphasis is placed on evidence-based practice, state-of-the-art interventions and information fluency

- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6874 - Nursing Environment Management **3 Credit Hours**
- NGR 7065 - Advanced Clinical Management for Advanced Practice Nursing **3 Credit Hours**

- NGR 7673 - Epidemiology Principles in Advanced Practice Nursing **3 Credit Hours**
- NGR 7793 - Leadership and Economics in Advanced Practice Nursing **3 Credit Hours**
- NGR 7820 - Innovative Technologies in Healthcare **3 Credit Hours**
- NGR 7827 - Concepts, Measurement, and Data Management **3 Credit Hours**
- NGR 7855C - Evidence-Based Practice Development for DNP **3 Credit Hours** (60 clinical hours)
- NGR 7892 - Healthcare Systems and Policy **3 Credit Hours**
- NGR 7911C - Doctoral Project I **3 Credit Hours** (60 clinical hours)
- NGR 7912C - Doctoral Project 2 **3 Credit Hours** (120 clinical hours)
- NGR 7913 - Doctoral Project 3 **3 Credit Hours**

DNP Project

The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to:

- Translate research into practice and evaluate outcomes
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Graduation Requirements

- All course work completed with a minimum grade of "B"
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- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 1 page, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
 - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
 - The final DNP project focuses on implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations
- An interview with faculty may also be required.

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International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Contact Info

Graduate Program

Valerie Martinez, DNP, APRN, CPNP-PC

Clinical Assistant Professor
 valerie.martinez@ucf.edu
 Telephone: 407-823-5024
 UTWR 459

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
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<https://graduate.ucf.edu/funding>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nursing Practice DNP, Advanced Practice Track ►

College: Nursing	Degree: DNP
Department: Nursing	
Program Websites: www.nursing.ucf.edu	
Graduate Program Handbook	

Track Description

The Doctor of Nursing Practice (DNP) program prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP Project.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

Please note: Nursing (DNP) - Advanced Practice may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty is authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-DNP-Online-Advanced-Practice.pdf>

Curriculum

For the Doctor of Nursing Practice (DNP), total graduate credit must equal or exceed 72 credit hours. Students take 27 credit hours of core courses, 9 credit hours of electives, and 6 credit hours of a DNP Project. The total clinical hours (including those hours accrued in the MSN degree) will be 1000. The core courses have been carefully constructed to incorporate the AACN competencies for DNP graduates. Details about this program are located in the Nursing DNP Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students will take course work that incorporates The Essentials of Doctoral Education for Advanced Nursing Practice [American Association of Colleges of Nursing (AACN), 2006]. The Essentials address the following:

1. Scientific underpinning for practice
2. Organizational and systems leadership for quality improvement and systems thinking
3. Clinical scholarship and analytical methods for evidence-based practice
4. Information systems/technology and patient care technology for the improvement and transformation of health care
5. Health care policy for advocacy in health care
6. Inter-professional collaboration for improving patient and population health outcomes
7. Clinical prevention and population health for improving the nation's health
8. Advanced nursing practice

DNP Core Courses—27 Credit Hours

The DNP core courses serve to enhance the skill and science base of the graduate and strengthen the focus on evidence-based practice. Safety and efficiency in health care systems is addressed and organizational and policy implications are emphasized within the context of care delivery. An emphasis is placed on evidence-based practice, state-of-the-art interventions and information fluency.

- NGR 6874 - Nursing Environment Management **3 Credit Hours**
- NGR 7892 - Healthcare Systems and Policy **3 Credit Hours**
- NGR 7673 - Epidemiology Principles in Advanced Practice Nursing **3 Credit Hours**
- NGR 7065 - Advanced Clinical Management for Advanced Practice Nursing **3 Credit Hours**
- NGR 7855C - Evidence-Based Practice Development for DNP **3 Credit Hours** (60 clinical hours)
- NGR 7827 - Concepts, Measurement, and Data Management **3 Credit Hours**
- NGR 7793 - Leadership and Economics in Advanced Practice Nursing **3 Credit Hours**
- NGR 7820 - Innovative Technologies in Healthcare **3 Credit Hours**
- NGR 7779C - Program Development and Management for DNP **3 Credit Hours**

Restricted Electives—9 Credit Hours

- Restricted Electives **9 Credit Hours**

DNP Project—6 Credit Hours

The DNP Project is the product of the culminating or comprehensive experience of an independent project that demonstrates application of advanced clinical and evidence-based practice. The DNP Project is guided and evaluated by an academic committee and is derived from the practice immersion experience (residency). It will serve as a foundation for future scholarly practice.

The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to:

- Translate research into practice and evaluate outcomes
- Quality improvement (care processes, continuity of care, patient outcomes)
- Implement and evaluate evidence-based practice guidelines
- Analyze policy: develop, implement, evaluate, or revise policy
- Design and use databases to retrieve information for decision making, planning, evaluation
- Conduct financial analyses to compare care models and potential cost savings, etc.
- Design and evaluate new models of care
- Design and evaluate health promotion and disease prevention programs
- Assess integration of technology in care

The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

- NGR 7911C - Doctoral Project 1 **3 Credit Hours** (60 clinical hours)
- NGR 7912C - Doctoral Project 2 **3 Credit Hours** (120 clinical hours)

Progress to Degree

Students are required to maintain a 3.0 grade point average. Grades below B are not acceptable in the doctoral program in the College of Nursing. Students who receive a grade of below B in any course are subject to dismissal from the DNP program and will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Equipment Fee

Full-time students in the Nursing Practice DNP program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- MSN degree in an APRN specialty role or a post-MSN certificate (NP, CNS, CRNA, CNM) from an accredited institution.
- Certification as an APRN or ability to obtain it in the first semester of enrollment is required.
- Advanced Practice Registered Nurse (APRN) licensure in the state in which you practice.
- Documentation of the number of clinical hours completed during master's program. Acceptable documents are license exam application form or the attached.
- A personal interview may be required with two members of the College of Nursing Doctoral Committee.
- Address the following 3 items in a written essay. Responses to all 3 questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
 - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
 - The final DNP project focuses on the implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.

- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
- Requires 3 professional recommendations
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Upon admission to the program, student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

Documentation of the number of clinical hours completed during master's program will need to be submitted. Acceptable documents are your license exam application form completion of the Verification of Clinical Hours Form.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Advanced Practice DNP	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	May 1	Sept 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jacqueline LaManna, PhD, APRN, ANP-BC, BC-ADM, CDE

Assistant Professor

jacqueline.lamanna@ucf.edu

Telephone: 407-823-2023

UTWR 471

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

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Nursing Practice DNP, Executive Track ►

College: Nursing	Degree: DNP
Department: Nursing	
Program Websites: http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index	
Graduate Program Handbook	

Track Description

The Executive Track in the Doctor of Nursing Practice (DNP) program is a dynamic and engaging academic curriculum that prepares the nurse executive for the multiple dimensions of administrative responsibilities within varied healthcare environments. The Executive DNP track extends and enhances the knowledge, skill, and performance of healthcare system leaders in a wide variety of clinical and administrative environments.

The DNP Executive Track meets the unique needs and taps the talent of nurse executives through experiential learning and leadership projects in a team-centered environment. It provides enrolled executives the opportunity to interact with prominent healthcare experts who address emergent and challenging issues for nurse leaders and encourages networking with colleagues across local and state healthcare and policy organizations.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings.
- Assume leadership roles in the development of clinical practice models, health policy, and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological, and other scientific data to improve individual, aggregate, and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and health care systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

Please note: Executive Nursing (DNP) may be completed fully online, with student practice hours completed within their local practice environment. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty is authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-DNP-Online-Executive.pdf>.

Curriculum

The Executive Track in the Doctor of Nursing Practice program prepares nurses at the highest level of practice for the current healthcare environment based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership, and organizational analysis, and provides analytic skills to examine practice innovations. Details about this program are located in the Executive DNP Handbook. For the Doctor of Nursing Practice (DNP), total graduate credit must equal or exceed 72 credit hours.

Practicum Experience and Sponsor Requirements and Responsibilities:

Practicum experience hours in nursing leadership must be completed in the graduate educational program in accordance with current accrediting bodies. Additional practicum experience hours may be required to demonstrate executive leadership competence.

Students are required to secure a sponsor within an organization to coach, mentor and guide the student related to their learning activities. Students pursuing a DNP degree in Executive Leadership need guidance in applying their course content to executive nursing practice and planning, implementing, and evaluating an evidence-based practice project.

Practice hours for the Executive DNP are typically accrued by a student working independently in his or her organization related to course objectives or the DNP Project. The sponsor provides guidance to the student on the development of their leadership role. They also provide assistance in gaining access to resources or personnel that are needed to plan, implement, and evaluate their practice improvement project. They work with the student to identify organizational needs and priorities so the student can provide value to the organization.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—27 Credit Hours

- NGR 6874 - Nursing Environment Management **3 Credit Hours**
- NGR 7673 - Epidemiology Principles in Advanced Practice Nursing **3 Credit Hours**
- NGR 7793 - Leadership and Economics in Advanced Practice Nursing **3 Credit Hours**
- NGR 7827 - Concepts, Measurement, and Data Management **3 Credit Hours**
- NGR 7820 - Innovative Technologies in Healthcare **3 Credit Hours**
- NGR 7892 - Healthcare Systems and Policy **3 Credit Hours**
- NGR 7855C - Evidence-Based Practice Development for DNP **3 Credit Hours** (60 practice hours)
- NGR 7779C - Program Development and Management for DNP **3 Credit Hours** (120 practice hours)
- NGR 7778L - Advanced Leadership Selective for DNP **3 Credit Hours** (190 practice hours)

Elective—3 Credit Hours

- Graduate Elective **3 Credit Hours** (chosen from an approved list)

DNP Executive Residency—3 Credit Hours

The DNP Residency provides an in-depth clinical experience for students. This advanced practice experience provides the opportunity to link policy making with clinical systems, translate research into practice and serve as change agents for health care.

- NGR 7976L - Executive DNP Residency **3 Credit Hours** (180 practice hours) Can be repeated.

DNP Professional Practice Immersion

DNP clinical requirements are 1000 hours post-baccalaureate. Immersion hours depend upon record review of hours completed at the master's level.

- NGR 7942L - DNP Professional Practice Immersion **VAR Credit Hours** (60-180 practice hours) Can be repeated.

DNP Project—9 Credit Hours

The DNP Project is the product of the culminating or comprehensive experience of an independent project that demonstrates application of advanced clinical and evidence-based practice. The DNP Project is guided and evaluated by an academic committee. It will serve as a foundation for future scholarly practice.

The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base.

- NGR 7911C - Doctoral Project 1 **3 Credit Hours** (60 practice hours)
- NGR 7912C - Doctoral Project 2 **3 Credit Hours** (120 practice hours) Can be repeated.
- NGR 7913 - Doctoral Project 3 **3 Credit Hours** Can be repeated.

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from systems leadership practice, will be developed in depth with faculty supervision.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- MSN or Master's Degree in a related field from an accredited institution.
- RN license the state in which you practice.

- Address the following 2 items in a written essay. Responses to all 3 questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
 - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
 - The final DNP project focuses on the implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, professional certifications, and activities with professional organizations.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Documentation of the number of clinical hours completed during master's program. Acceptable documents are your license exam application form completion of the **Verification of Clinical Hours Form**.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Executive	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	May 1	Sept 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Nora Warshawsky PhD, RN, CNE, NEA-BC, FAAN

Professor

nora.warshawsky@ucf.edu

Telephone: 407-823-5468

UTWR 473

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

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Orlando, FL 32816-0112

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Nursing Practice DNP, Family Nurse Practitioner Track

College: Nursing	Degree: DNP
Department: Nursing	
Program Websites: http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index	
Graduate Program Handbook	

Track Description

The Doctor of Nursing Practice (DNP) program in the Family Nurse Practitioner Track prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP project.

Upon completion of this program, students are eligible to sit for the Family Nurse Practitioner (FNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Family-Nurse-Practitioner-DNP.pdf>.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.

- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

Curriculum

The DNP Family Nurse Practitioner Track allows requires a minimum of 75 credit hours beyond the baccalaureate degree. The curriculum includes 39 credit hours of core courses shared with other DNP tracks, 14 credits of APN core and 22 credits of specialty courses. A total of 1,080 practicum hours are required to earn the DNP. The program prepares nurses at the entry level for advanced practice for the current healthcare system based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis; and provides analytic, critical thinking and diagnostic reasoning skills to examine practice innovations involving completion of the residency project during the clinical residency courses. Details about this program are located in the Advanced Practice DNP Family Nurse DNP Handbook.

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses—9 Credit Hours

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Advanced Practice Core Courses—14 Credit Hours

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 clinical hours)
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 6063L - Advanced Skills for the Management of Illness and Injuries **2 Credit Hours** (120 clinical hours)
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**

Specialty Courses: Family Nurse Practitioner—22 Credit Hours

- NGR 6201 - Adult I Primary Care **3 Credit Hours**
- NGR 6240L - Adult I Clinical for APNs **3 Credit Hours** (180 clinical hours)
- NGR 6263 - Gerontologic Care for APNs **3 Credit Hours**
- NGR 6263L - Gerontologic Care Clinical for NPs **2 Credit Hours** (120 clinical hours)
- NGR 6305 - Pediatric Primary Care **3 Credit Hours**
- NGR 6305L - Pediatric Primary Care Clinical **2 Credit Hours** (120 clinical hours)

- NGR 6334 - Women's Health for APNs **2 Credit Hours**
- NGR 6342L - Women's Health for APNs Clinical **1 Credit Hours** (60 clinical hours)
- NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum **3 Credit Hours** (180 clinical hours)

DNP Core Courses—39 Credit Hours

The DNP courses serve to enhance the skill and science base of the graduate and strengthen the focus on research utilization. Safety and efficiency in health care systems is addressed and organizational and policy implications are emphasized within the context of care delivery. An emphasis is placed on evidence-based practice, state-of-the-art interventions and information fluency.

- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6874 - Nursing Environment Management **3 Credit Hours**
- NGR 7065 - Advanced Clinical Management for Advanced Practice Nursing **3 Credit Hours**
- NGR 7673 - Epidemiology Principles in Advanced Practice Nursing **3 Credit Hours**
- NGR 7793 - Leadership and Economics in Advanced Practice Nursing **3 Credit Hours**
- NGR 7820 - Innovative Technologies in Healthcare **3 Credit Hours**
- NGR 7827 - Concepts, Measurement, and Data Management **3 Credit Hours**
- NGR 7855C - Evidence-Based Practice Development for DNP **3 Credit Hours** (60 clinical hours)
- NGR 7892 - Healthcare Systems and Policy **3 Credit Hours**
- NGR 7911C - Doctoral Project I **3 Credit Hours** (60 clinical hours)
- NGR 7912C - Doctoral Project 2 **3 Credit Hours** (120 clinical hours)
- NGR 7913 - Doctoral Project 3 **3 Credit Hours**

DNP Project

The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to:

- Translate research into practice and evaluate outcomes
- Quality improvement (care processes, continuity of care, patient outcomes)
- Implement and evaluate evidence-based practice guidelines
- Analyze policy: develop, implement, evaluate or revise the policy
- Design and use databases to retrieve information for decision making, planning, evaluation
- Conduct financial analyses to compare care models and potential cost savings, etc.
- Design and evaluate new models of care
- Design and evaluate health promotion and disease prevention programs
- Assess integration of technology in care

The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade of below "B" in any course will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program.

Grades of below B are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 1 page, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
 - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
 - The final DNP project focuses on implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations
- An interview with faculty may also be required.

*For Students with an RN and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Family Nurse Practitioner	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Valerie Martinez, DNP, APRN, CPNP-BC

Clinical Assistant Professor

valerie.martinez@ucf.edu

Telephone: 407-823-5024
UTWR 459

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Optics and Photonics PhD

College: Optics and Photonics	Degree: PhD
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Program Websites: http://www.creol.ucf.edu/	Option: Dissertation
Graduate Program Handbook	

Program Description

The Optics and Photonics PhD program provides the highest-quality education in optical science and engineering, allowing students to conduct scholarly, fundamental, and applied research, while aiding in the development of Florida's and the nation's technology-based industries.

Research activities cover all aspects of optics, photonics, and lasers, and the Center for Research and Education in Optics and Lasers (CREOL), the Florida Photonics Center of Excellence (FPCE), and the Townes Laser Institute (TLI) are integral parts of the College of Optics and Photonics. Current research areas include: linear and nonlinear guided-wave optics and devices, high speed photonic telecommunications, fiber optic fabrication, fiber optic communications, solid state laser development, nonlinear optics, laser-induced damage, quantum-well optoelectronics, quantum optics, photonic information processing, infrared systems, optical diagnostics, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, x-ray optics, EUV sources, optical glasses, laser materials processing, free-electron lasers, and light matter interaction.

The College of Optics and Photonics (COP) was the first program to be offered the distinction of a college devoted to Optics in the United States. The College of Optics and Photonics has grown rapidly and now has 55 faculty members and faculty with joint appointments, 41 research scientists and 148 graduate students with research activities covering all aspects of optics, photonics, and lasers. Research expenditures are over \$10 million annually, with more than 20 percent of the funding coming from industrial partners, illustrating the effectiveness of the commitment to partnerships that is a foundational value of the COP.

Curriculum

The Optics and Photonics PhD program is intended for students with a bachelors or master's degree in Optics, Electrical Engineering, Physics, or closely related fields who wish to pursue a career in research or academia. Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students are required to pass a qualifying examination, usually taken after 12 months in the program. About one year after passing the qualifying exam, students must take a candidacy examination, form a dissertation committee, and submit an approved plan of study before being admitted to candidacy doctoral status. The PhD core courses are not absolutely required, but they have been designed to include a significant portion of the material upon which the qualifying examination is based. Consequently, students are strongly encouraged to include most of these courses in their plan of study.

The Optics and Photonics PhD program requires a minimum 72 credit hours beyond the bachelor's degree, of which more than 50 percent should be at the 6000 level or higher. These hours must be comprised of:

- At least 39 credit hours of formal coursework satisfying the following requirements:
 - at least 30 credit hours must be Optics (prefix OSE) courses.
 - at least 3 credit hours must be science and engineering graduate research methods/laboratory courses which must be in Optics (OSE).

- at least 15 credit hours of Dissertation (OSE 7980)

Additional notes on the curriculum:

- Up to 30 credit hours of appropriate graduate courses earned in a master's program from accredited universities may be waived with approval from the graduate committee.
- Only courses with grades of "B" or better can be transferred.

Required Courses: 21 Credit Hours

Core Courses: 18 Credit Hours

- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**
- OSE 6211 - Imaging and Optical Systems **3 Credit Hours**
- OSE 6474 - Fundamentals Optical Fiber Communications **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**
OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering

Research Methods/ Laboratory Courses: 3 Credit Hours

At least 3 credit hours of approved Optics (OSE) and related science/engineering research methods/laboratory courses are required from the list below. The laboratory may be waived if the student can demonstrate an equivalent hands-on proficiency in that laboratory specialization. These research methods/laboratory courses count toward the formal graduate course work requirement.

- OSE 6234C - Applied Optics Laboratory **3 Credit Hours**
- OSE 6455C - Photonics Laboratory **3 Credit Hours**
- OSE 6526C - Laser Engineering Laboratory **3 Credit Hours**
- OSE 6615L - Optoelectronic Device Fabrication Laboratory **3 Credit Hours**
- Other graduate science and engineering labs may be taken with college approval.

Elective Courses: 36 Credit Hours Minimum

Restricted Electives: 9 Credit Hours

In addition to the required courses above, students will need to complete an additional 9 credit hours to meet the 30 hours of formal Optics (OSE) course work required. An additional three hours of optics coursework will be required if the student waived out of the research methods/laboratory courses above, or if the laboratory courses taken is not an OSE prefix.

Other courses with significant optics content may be accepted toward the Optics (OSE) coursework requirement, upon approval by the Associate Dean.

A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.

Unrestricted Electives: 27 Credit Hours Minimum

A combination of formal course work and research hours comprise the remaining unrestricted hours. At least 9 of these hours must be formal course work, which may be graduate optics, science or engineering courses. In addition to the 9 hours, 18 credits may be regular formal course work, doctoral research hours, independent study, or doctoral dissertation hours. The independent study hours are limited to a maximum of 3 credit hours. Any courses outside of the graduate optics, science or engineering disciplines must be approved by the college associate dean.

Dissertation: 15 Credit Hours Minimum

- OSE 7980 - Dissertation Research **15 Credit Hours**

Qualifying Examination

Before students are eligible to take the candidacy examination, they must pass a written qualifying examination, which for full-time students is normally taken at the end of the first year of graduate study. The purpose of the qualifying exam is for the student to demonstrate mastery of the fundamentals of optics and photonics. The exam is administered by the doctoral qualifying examination committee, which consists of several graduate faculty members representing the appropriate disciplines, appointed by the director or designee. The committee's duties include the preparation and grading of the examination material, and it may solicit input from other interested faculty. The exam is a closed book written exam in the general areas of electromagnetic foundations of optics, interference, diffraction, coherence, linear systems imaging, and light matter interaction. Students who do not pass the qualifying examination in two attempts will not continue in the program.

Candidacy Examination

Students are required to successfully complete the candidacy examination before admission to full doctoral status. The purpose of the candidacy exam is for the student to demonstrate his or her readiness for the PhD program through preliminary research work in the chosen field of study. The candidacy exam is comprised of written and oral portions. The exam is administered by the members of the student's dissertation advisory committee who are full faculty members of the College of Optics and Photonics. External committee members of the dissertation advisory committee are not appointed until after the student has passed the candidacy exam. The exam is normally taken near the completion of required course work. Students must pass the candidacy exam before registering for doctoral dissertation hours (OSE 7980).

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of most course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Dissertation Proposal and Defense

Approximately one year after passing the general candidacy examination, and after the student has begun research, the student will write a dissertation proposal and present it to their dissertation advisory committee for its approval. The proposal must include the research performed to date and the research planned to complete the dissertation. The committee, which consists of three graduate faculty members from the College of Optics and Photonics and one faculty

member from outside the college, must be approved by the director or designee and will meet annually to review the student's progress. The dissertation advisory committee also administers the dissertation oral defense examination.

Independent Learning

The dissertation satisfies the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's or master's degree in Optics, Electrical Engineering, Physics or closely related discipline.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation
- The College of Optics and Photonics requires a Statement of Purpose.
 - A brief, 1-2 page statement about educational, research, and long-term professional career objectives.
- Résumé

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Application Deadlines

Optics and Photonics PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

M. G. "Jim" Moharam PhD

Interim Associate Dean
moharam@creol.ucf.edu
Telephone: 407-823-6833
CREOL Room 209

Alma Montelongo

gradprog@creol.ucf.edu
Telephone: 407-823-4726
CREOL Room 208

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Physical Therapy DPT

College: Health Professions and Sciences	Degree: DPT
Department: School of Kinesiology and Physical Therapy	
Program Websites: https://healthprofessions.ucf.edu/kpt/physicaltherapy/doctorate/	
Graduate Program Handbook	

Program Description

The Doctor of Physical Therapy (DPT) program prepares students to become competent, compassionate, and ethical physical therapists able to effectively treat patients in a variety of health care settings. Graduates will be highly dedicated professionals who demonstrate clinical excellence through exceptional critical thinking, communication, patient education, advocacy, practice management and research skills.

The Doctor of Physical Therapy program is a three-year (nine consecutive semesters) professional doctoral curriculum designed to prepare entry-level therapists to practice in a variety of clinical settings. The professional curriculum is a full-time "lock-step" program. The program includes multiple clinical education experiences (internships) ranging from eight weeks to twelve weeks in duration. It also includes focused interprofessional education activities involving students from other professional disciplines as well as research training and activities.

Students who successfully complete the course of study will be granted the Doctor in Physical Therapy degree (DPT), enabling the graduate to take the national board examination leading to state licensure as a Physical Therapist. This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Doctor-of-Physical-Therapy.pdf>.

The UCF Doctor of Physical Therapy program promotes lifelong learning and professional development, which is attained through active involvement in professional organizations such as the American Physical Therapy Association. UCF's Doctor of Physical Therapy Program is fully accredited by the Commission on Accreditation of Physical Therapy Education.

Mission

The mission of the University of Central Florida's Doctor of Physical Therapy Program is to cultivate excellence in physical therapist practice through comprehensive and focused doctoral education. The program fosters excellence

through its dedication to foundational sciences, clinical skill proficiency, research and evidence-based practice, service and professional duty, and lifelong learning. The program is committed to the development and strengthening of the healthcare community in order to optimize patient care in the dynamic healthcare environment.

Vision

The Doctor of Physical Therapy Program at the University of Central Florida will be distinguished for:

- Its breadth, depth, and collaborative approach to physical therapist education
- Clinical excellence and advancement of clinical practice
- Scholarly achievements and professional recognition of students, faculty, and clinical partners
- Dedication to the health and well-being of the Central Florida community
- Professional commitment and advocacy
- Cultivation of professional development to advance the practice of physical therapy

Curriculum

The Doctor of Physical Therapy (DPT) Program is a full-time professional doctoral program requiring completion of 114 credits beyond the bachelor's degree. The required course work is taken in a prescribed sequence over nine consecutive semesters. The program requires a total of 36 weeks of full-time (40 hours/week) clinical education experiences. During these clinical education experiences, students work under the direct supervision of a licensed physical therapist.

There are several co-curricular topics embedded within the DPT Program. These areas are congruent with contemporary professional education and accreditation expectations. They include integrated clinical experiences, interprofessional education, and research.

Integrated Clinical Experiences (ICE)

Contemporary physical therapy education, as required by professional standards with physical therapy accreditation, necessitates clinical activities that are outside of formal clinical education internships. These activities are called Integrated Clinical Experiences (ICE). These educational experiences are brief encounters with patients and patient populations through programmatic activities as well as activities embedded in several courses. In alignment with this requirement, the UCF DPT Program **requires full participation from enrolled students**. These activities may be directly aligned with DPT courses and assigned a grade, or they may be more programmatic in nature, outside of traditional coursework. Activities will include exposure to various clinical settings and populations, and other part-time experiences that are designed to assist students in becoming more effective and safe practitioners when they enter formal clinical education or upon graduation and eventual licensure. These activities may necessitate travel outside of the UCF main campus and time outside of scheduled courses. All attempts will be made to communicate required activities with appropriate lead time. Accommodations to student academic schedules may be considered.

Interprofessional Education (IPE)

Contemporary physical therapy education, as required by professional standards with physical therapy accreditation requires education of students in collaborative team environments with the involvement of students from other professional disciplines. Thus, a co-curricular thread embedded in the UCF DPT Program is Interprofessional Education (IPE). The UCF DPT Program participates in a collaborative IPE curriculum with the UCF College of Medicine, UCF College of Nursing, UCF School of Social Work, and the UF College of Pharmacy. These activities involve the coordination of numerous faculty and staff and several hundred students from all represented programs. **All DPT students are required to attend all IPE curricular activities**. These activities are typically scheduled in all years of the DPT Program and may involve travel to the UCF College of Medicine, UF College of Pharmacy (Lake

Nona campus), and/or clinical sites in the Orlando area. All activities will be communicated to students with appropriate lead time. Accommodations to student academic schedules may be considered.

Research Curriculum

Contemporary physical therapy education, as mandated by professional standards with physical therapy accreditation, requires that graduates have a thorough understanding of clinical research. Areas of competency include the ability to independently locate reputable information, interpret study findings, and implement research into clinical practice. Students enrolled in the UCF DPT Program will be exposed to research throughout their curriculum in the form of multiple courses and required research readings. In addition, students are required to work in small groups and complete a research project under the mentorship of a faculty member. These projects culminate in a written manuscript, poster and oral research presentations at UCF, and the opportunity to present at state, regional, and national conferences. Many UCF DPT students have published their work in peer-reviewed journals. It should be noted that much of the program's research must be done outside of the traditional classroom setting. Students must take the initiative to work on their research independently. A key component of fruitful research experience is frequent communication between students and their research advisor.

All additional requirements in the research curriculum will be communicated to students in writing through correspondence from the research coordinator and/or program director. Students will have all information available to them via a web platform. Further, students will enroll in a 0-credit Doctoral Research Course each semester upon entering the research curriculum (Semester #4 – Summer, Year 2). These courses bear no tuition or impact to financial aid but will serve as a designation on official transcripts that the students are involved in research at the university.

Failure to maintain satisfactory progress in the research curriculum through inadequate communication with faculty mentor and/or coordinator, missing required deadlines, or matters of misconduct will be addressed by the program director, faculty, and/or appropriate programmatic committee for action. Satisfactory completion of a research project guided and approved by a faculty mentor is a requirement for graduation.

Total Credit Hours Required: 114 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

Each prerequisite course must be completed with a minimum grade of "C". The overall GPA for all prerequisite courses must be a 3.00 or higher to be considered for admission. The program recommends all prerequisite courses be completed at the time of application. Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses. **No more than two prerequisite courses may be in progress the fall semester prior to the program's start and no more than one course may be in progress during the spring semester prior to the program's start.** Courses older than ten years will not be accepted. Online courses are NOT accepted for the following prerequisites: anatomy courses, physiology courses, physics courses, or chemistry courses, unless taken in semesters affected by COVID-19 (see program Admissions page for additional information). Hybrid courses are only accepted for the prerequisite courses listed above if the lab component is delivered in a face-to-face format (submission of course description/syllabi may be required to verify course delivery mode). Email ptinfo@ucf.edu to request a prerequisite review.

Anatomy and Physiology - Two courses with labs and a minimum of 8 credit hours is required. One of two options must be met:

Option 1: One semester of Human Physiology with lab and one semester of Anatomy with lab.

Option 2: Two semesters of Anatomy/Physiology combined courses with labs.

Biology / Biological Studies - Two courses and a minimum of 6 credit hours is required. Labs are not required. Must be courses for science majors.

Chemistry - Two courses with labs and a minimum of 8 credit hours is required. Introduction and survey courses are NOT accepted.

Physics - Two courses with labs and a minimum of 8 credit hours is required. General Physics and Physics with Calculus are both acceptable courses.

Psychology - One course (3 credit hours) is required. Any psychology course that is taken within the Psychology Department will meet this requirement.

Statistics - One course (3 credit hours) is required.

Required Courses

Year 1

Summer Term 1 (14 Credit Hours)

- PHT 5003 - Foundations of Physical Therapy **2 Credit Hours**
- PHT 5125 - Clinical Kinesiology **2 Credit Hours**
- PHT 5125L - Clinical Kinesiology Lab **1 Credit Hours**
- PHT 6115C - Gross Anatomy/Neuroscience I **6 Credit Hours**
- PHT 6156C - Applied Human Physiology for Health Sciences **3 Credit Hours**

Fall Term 1 (17 Credit Hours)

- PHT 5240 - Physical Assessment **1 Credit Hours**
- PHT 5240L - Physical Assessment Lab **2 Credit Hours**
- PHT 5260 - Patient Care Skills **2 Credit Hours**
- PHT 5260L - Patient Care Skills Lab **2 Credit Hours**
- PHT 6118C - Gross Anatomy/Neuroscience II **6 Credit Hours**
- PHT 6153 - Physiologic Assessment in Physical Therapy Practice **2 Credit Hours**
- PHT 6606 - Research Methods in Physical Therapy **2 Credit Hours**

Spring Term 1 (15 Credit Hours)

- PHT 5218C - Therapeutic Modalities in Rehabilitation **3 Credit Hours**
- PHT 5241 - Therapeutic Exercises I **2 Credit Hours**
- PHT 5241L - Therapeutic Exercise Lab I **2 Credit Hours**
- PHT 6242 - Orthopedic Physical Therapy **3 Credit Hours**
- PHT 6242L - Orthopedic Physical Therapy Lab **1 Credit Hours**
- PHT 6306 - Pathology in Rehabilitation **2 Credit Hours**
- PHT 6356 - Pharmacology in Rehabilitation **2 Credit Hours**

Year 2

Summer Term 2 (11 Credit Hours)

- PHT 5718 - Neurological Physical Therapy **3 Credit Hours**

- PHT 5718L - Neurological Physical Therapy Lab **1 Credit Hours**
- PHT 6219C - Pain Mechanisms and Treatment in Rehabilitation **2 Credit Hours**
- PHT 6245 - Therapeutic Exercise II **2 Credit Hours**
- PHT 6245L - Therapeutic Exercise II Lab **1 Credit Hours**
- PHT 7722C - Integrative Clinical Practice **2 Credit Hours**

Fall Term 2 (14 Credit Hours)

- PHT 6521 - Management of Physical Therapy Services **2 Credit Hours**
- PHT 6322C - Pediatric Physical Therapy **3 Credit Hours**
- PHT 6716C - Advanced Orthopedic Physical Therapy **2 Credit Hours**
- PHT 6720 - Integumentary Physical Therapy **1 Credit Hours**
- PHT 6805C - Clinical Education I **4 Credit Hours**
- PHT 7742C - Acute Care Physical Therapy **2 Credit Hours**

Spring Term 2 (13 Credit Hours)

- PHT 6374C - Geriatric Physical Therapy **2 Credit Hours**
- PHT 6381C - Cardiopulmonary Physical Therapy **2 Credit Hours**
- PHT 6618 - Research Applications in Physical Therapy **2 Credit Hours**
- PHT 6719 - Advanced Neurological Physical Therapy **2 Credit Hours**
- PHT 6719L - Advanced Neurological Physical Therapy Lab **1 Credit Hours**
- PHT 7134C - Physical Therapy Integration **2 Credit Hours**
- PHT 7730C - Primary Care for the Physical Therapist **2 Credit Hours**

Year 3

Summer Term 3 (6 Credit Hours)

- PHT 7822C - Clinical Education II **6 Credit Hours**

Fall Term 3 (13 Credit Hours)

- PHT 7721C - Integrations in Orthopedic Physical Therapy **1 Credit Hours**
- PHT 7772C - Advanced Neurological Physical Therapy II **1 Credit Hours**
- PHT 7780C - Advanced Geriatric Physical Therapy **1 Credit Hours**
- PHT 7329C - Advanced Pediatric Physical Therapy **1 Credit Hours**
- PHT 7521 - Management of Physical Therapy Services II **2 Credit Hours**
- PHT 7823C - Clinical Education III **4 Credit Hours**
- PHT 6070C - Radiology/Imaging for Physical Therapy **3 Credit Hours**

Spring Term 3 (11 Credit Hours)

- PHT 7021 - Professional Practice in Physical Therapy **2 Credit Hours**
- PHT 7900 - Capstone Project in Physical Therapy **3 Credit Hours**
- PHT 7829C - Clinical Education IV **4 Credit Hours**

- PHT 7XXXX ***Elective Course **2 Credit Hours**
***Elective Course Options (student must select at least one of the following courses, pending availability). PHT 6958 Physical Therapy Study Abroad can fulfill the elective requirement and may be offered at any point in the DPT curriculum:
- PHT 7778C - Advanced Manual Therapy **2 Credit Hours**
- PHT 7764C - Advanced Neurological Treatment **2 Credit Hours**
- PHT 7702C - Advanced Orthotics and Prosthetics **2 Credit Hours**
- PHT 7779C - Sports Physical Therapy **2 Credit Hours**
- PHT 6958 - Study Abroad **Credit Hours**

Examinations

Each student is required to achieve a passing score on the comprehensive examination. If a student does not achieve a passing score on the first attempt, a second version of the exam will be provided. If the student does not achieve a passing score on the second examination, the student will be required to pass an oral comprehensive examination which will involve patient case scenario(s). The first two examinations will include the practice exam(s) developed by the Federation of State Boards of Physical Therapy, with passing scores required to be no less than 600 (overall scale score). If a student is required to take the oral examination, a passing score is deemed as having the majority of raters providing an overall pass score. Failure of the comprehensive examination upon this third attempt will result in review by the program faculty in accordance with its retention and advancement procedures to determine if the student will be dismissed from the program or placed on a remediation plan.

Equipment Fee

Students in the Doctor of Physical Therapy program pay a \$90 equipment fee each semester that they are enrolled.

Application Requirements

The Doctor of Physical Therapy program at UCF participates in the Physical Therapist Centralized Application Service, known as PTCAS. Prospective students applying to the entry-level physical therapist education program must apply online using the PTCAS application (this is in addition to the UCF Graduate Application which serves as a supplemental application). To learn more about the PTCAS application process, visit www.ptcas.org.

All application materials **MUST** be sent directly to PTCAS. Materials sent to the university or program and not to PTCAS will not be accepted. The following application materials must be received by PTCAS no later than October 15.

- Completed PTCAS Application (www.ptcas.org), including all documents required by PTCAS.
- One official transcript from each college/university attended.
- Official GRE scores taken within last five years. **Use GRE CODE for UCF PTCAS: 3871** (*Do not use the UCF "Institution Code" for GRE*)
- Prerequisite courses completed within ten (10) years of anticipated matriculation.
- A minimum of 50 hours of observation/volunteer or work experience under the direct supervision of a licensed physical therapist. Hours must be verified through PTCAS by November 1st to be considered. A variety of settings is recommended.
- Three (3) letters of recommendation with PTCAS recommendation forms, including one (1) from a physical therapist.
- Applicants who have attended a college/university outside the United States must also provide a course-by-course credential evaluation with GPA calculation through WES.

- UCF Graduate Application (supplemental) must be submitted in addition to PTCAS application. Deadline to submit the supplemental application is October 15.

Incomplete applications will NOT be reviewed.

Application requirements:

- The bachelor's degree may be in any discipline from a regionally accredited institution and may be in progress at the time of application. However, the degree must be awarded prior to the program's start date in the Summer C semester (mid-May).
- Minimum GPA of 3.00 (on 4.00 scale) in the last 60 credit hours of an undergraduate degree.
- Minimum GPA of 3.00 (on 4.00 scale) for all prerequisite courses. Each prerequisite course grade must be a 'C' or higher ("C-" grades are NOT accepted).
- Submission of competitive GRE scores within last five (5) years.
- An interview, **by invitation only**.
- UCF Graduate Application (supplemental) **MUST** be completed by October 15 with supplemental application fee paid by **ALL APPLICANTS**.
- A resume will only be required for students who are offered an interview by the program. Once requested, the applicant will email the resume directly to the program.

Applicants not meeting these minimum requirements will not be considered for admission. Meeting minimum requirements does not guarantee an applicant an interview or admission to the program. All applicants and admitted students to the Doctor of Physical Therapy program must perform certain Essential Functions in order to participate and complete program requirements.

PTCAS will begin accepting applications in July, however, the program will not begin reviewing applications until August or September.

Admissions decisions will be made only once per academic year. Incoming students must begin the program in the summer C semester (mid-May).

Thirty-eight (38) students are admitted to the program each year. The demographics of a recent class include an average age of 22 years and a grade point average of 3.80 for upper-division coursework and 3.75 for prerequisite courses (on a 4.0 scale), and an average GRE scores of 155 / 156 / 4WA.

Admission to the program is competitive based on the above criteria, the applicant's abilities, past academic performance, work experience and match of the applicant with the program's mission and goals.

Application Deadlines

Applications are only accepted for Summer admission. The application for this program can be found at www.ptcas.org.

Physical Therapy DPT	*Fall Priority	Fall	Spring	Summer
Domestic Applicants				Nov 1
International Applicants				Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Samantha Fraley

samantha.fraley@ucf.edu
Telephone: 407-823-3462
HS 256

Patrick Pabian DPT, PhD

patrick.pabian@ucf.edu
Telephone: 407-823-3462
HPA 1 256

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

UCF DPT PTCAS
GRE code: 3871
GMAT: RZT-HT-58

TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
funding.graduate.ucf.edu

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
finaid.ucf.edu

Physics PhD

College: Sciences	Degree: PhD
Department: Physics	Option: Dissertation
Program Websites: https://sciences.ucf.edu/physics	
Graduate Program Handbook	

Program Description

The Physics doctoral program offers research opportunities in condensed matter physics, physics of nanostructured devices, surface science, optical physics, complex systems, biophysics, atomic and molecular physics, physics education and planetary/space science. The program intends to provide a broad base in experimental and theoretical physics.

The rules and recommendations below do not apply to the Planetary Sciences track of the Physics PhD program.

Program Tracks

- Physics PhD, Planetary Sciences Track

Curriculum

The Physics PhD program requires a total of 72 credit hours for completion. A specific set of six required core courses (18 credit hours), thirteen elective courses (39 credit hours, which may include directed research), and a minimum of 15 credit hours of dissertation are part of the 72 hours.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree. 42 Credit Hours Minimum beyond the Master's Degree.

Of the 39 credit hours of elective courses, 9 credit hours must be formal courses and 3 credit hours must be in a methods course selected from a list approved by the Physics department (see below). The remaining 27 credit hours need to be a combination of directed research, other electives, and/or dissertation. Courses must be selected so that at least one-half of the required 72 hours are taken at the 6000 level.

Required Core Courses: 18 Credit Hours

All students are required to take the following core courses:

- PHY 5606 - Quantum Mechanics I **3 Credit Hours**
- PHY 6624 - Quantum Mechanics II **3 Credit Hours**
- PHY 5346 - Electrodynamics I **3 Credit Hours**
- PHY 6347 - Electrodynamics II **3 Credit Hours**
- PHY 5524 - Statistical Physics **3 Credit Hours**
- PHY 6246 - Classical Mechanics **3 Credit Hours**

Elective Courses: 39 Credit Hours

Elective and research courses are determined by the student's chosen specialization as listed below:

Formal Courses: 9 Credit Hours

Students must complete three formal courses (9 credit hours) from the "List of Specialization Courses".

Methods Course: 3 Credit Hours

Students must complete one methods course (3 credit hours) from the following list:

- PHZ 5156 - Computational Physics **3 Credit Hours**
- AST 5765C - Advanced Astronomical Data Analysis **3 Credit Hours**
- PHY 5937 - Nano-Electronics **3 Credit Hours**

Remaining Electives: 27 Credit Hours

Students must complete 27 credit hours of unrestricted electives, which may consist of formal courses, research, and/or dissertation hours. Students should consult with their adviser about selections for the remaining unrestricted electives.

List of Specialization Courses:

General Physics Specialization

The General Physics Specialization emphasizes strong preparation in physics fundamentals. It is intended to prepare students for careers in theoretical physics or teaching at the college level. A few active research programs exist in the department to accommodate such students.

Recommended Courses

- COT 5600 - Quantum Computing **3 Credit Hours**
- PHY 5933 - Selected topics in biophysics of macromolecules **3 Credit Hours**
- PHZ 5156 - Computational Physics **3 Credit Hours**
- PHZ 5405 - Condensed Matter Physics **3 Credit Hours**
- PHZ 6426 - Condensed Matter Physics I **3 Credit Hours**
- PHZ 6428 - Condensed Matter Physics II **3 Credit Hours**
- PHY 6667 - Quantum Field Theory I **3 Credit Hours**
- PHY 7669 - Quantum Field Theory II **3 Credit Hours**
- PHZ 5505 - Plasma Physics **3 Credit Hours**
- PHZ 5304 - Nuclear and Particle Physics **3 Credit Hours**
- PHZ 6234 - Atomic Physics **3 Credit Hours**
- PHZ 6420 - First Principles Computational Methods in Condensed Matter Physics **3 Credit Hours**
- PHY 6600C - Theory and Computations of Molecular Wavefunctions **3 Credit Hours**
- PHY 6938 - Selected Topics in Scattering Theory **3 Credit Hours**
- PHY 6938 - Special Topics: Electrodynamics III **3 credit hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**
- OSE 6347 - Quantum Optics **3 Credit Hours**
- PHY 7919 - Doctoral Directed Research

Condensed Matter Physics Specialization

The Condensed Matter Physics Specialization is intended to prepare students for careers in materials physics, nanoscale science and technology, semiconductors, and soft condensed matter physics. It emphasizes strong experimental preparation with hands-on courses in advanced materials characterization and processing instrumentation. Related research programs at UCF include magnetic nanostructures, soft condensed matter, electronic and optoelectronic devices, and nanoscale characterization.

Recommended Courses

- PHZ 5405 - Condensed Matter Physics **3 Credit Hours**
- PHZ 6426 - Condensed Matter Physics I **3 Credit Hours**
- PHZ 6428 - Condensed Matter Physics II **3 Credit Hours**
- PHZ 5156 - Computational Physics **3 Credit Hours**
- PHZ 6420 - First Principles Computational Methods in Condensed Matter Physics **3 Credit Hours**
- PHZ 5432 - Introduction to Soft Condensed Matter Physics **3 Credit Hours**
- PHY 5933 - Selected topics in biophysics of macromolecules **3 Credit Hours**
- PHY 6667 - Quantum Field Theory I **3 Credit Hours**
- PHY 7669 - Quantum Field Theory II **3 Credit Hours**
- COT 5600 - Quantum Computing **3 Credit Hours**
- PHY 6938 - Theory and Computation of Molecular Wave Functions **3 Credit Hours**
- PHY 6938 - Selected Topics in Scattering Theory **3 Credit Hours**

- Two "studio lab" courses: PHY 5140C - Ion-solid interactions (3 credit hours) and PHZ 5425C - Electron Solid Interactions (3 credit hours)

Other courses from Materials Science, Physics, Optical Science and Engineering, Electrical Engineering, or Industrial Chemistry require approval of the student's adviser and the graduate program director.

Optical Physics Specialization

The Optics Specialization coordinator is David Hagan, PhD, College of Optics and Photonics. Students are recommended to take at least one of the following courses.

- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 5115 - Interference and Diffraction **3 Credit Hours**

Laboratory Course

Select at least one of the following laboratory courses.

- OSE 6526C - Laser Engineering Laboratory **3 Credit Hours**
- OSE 6455C - Photonics Laboratory **3 Credit Hours**

The remaining courses (up to three) may be selected from other graduate courses in Optics (see www.creol.ucf.edu).

Dissertation: 15 Credit Hours Minimum

All students must complete a minimum of 15 credit hours of dissertation prepared in consultation with a dissertation adviser. A fifteen-page written proposal is presented orally to the student's dissertation committee within one year after the written candidacy exam. The final oral defense of the dissertation is administered by the student's dissertation committee following completion of a written dissertation describing the student's research.

- PHY 7980 - Dissertation Research **15 Credit Hours**

Seminar Attendance

Students in their fourth semester and beyond will be required to attend a major fraction of seminars and colloquia hosted by the Physics Department, as well as to make an annual presentation of their research work or independent study.

Examinations

Placement Exam—All incoming PhD students in Physics will be required to take a diagnostic test like the Physics subject GRE. This test has placement purposes only, allowing the Graduate Program Director and academic adviser to identify possible weaknesses in the student's background and help devise a suitable plan of study. There is no passing or failure.

Candidacy Exam—The candidacy exam consists of two parts.

Part 1 is a written exam covering topics such as those listed in the Graduate Catalog for the courses PHY 5606 - Quantum Mechanics I, PHY 6624 - Quantum Mechanics II, PHY 5346 - Electrodynamics I, PHY 6347 - Electrodynamics II, PHY 5524 - Statistical Physics, and PHY 6246 - Classical Mechanics. Students are expected to show mastering of these topics at or above the undergraduate level. The written exam should be taken immediately

after the core courses have been completed. After passing the written exam, the student should identify a research supervisor and a dissertation committee must be put in place with the approval of the graduate program director. Students are only allowed two attempts at passing the written part of the candidacy exam.

Part 2 is an oral exam that combines an examination of the student's command of Physics and a written dissertation proposal. The oral exam should be taken no later than one year after the written exam has been satisfied.

Admission to Candidacy

The following are required to obtain candidacy status and enroll in dissertation hours:

- Completion of a minimum 30 credit hours to include all required core courses, 18 credit hours of core courses, 3 credit hours of Methods Course, and 9 credit hours of formal electives. (Directed Research and Dissertation hours are not included) *Note: For students that transfer from a doctoral program post-candidacy, a minimum 9 credit hours enrollment in their first semester is required to satisfy the UCF earned non-zero GPA.
- Successful completion of both part I (written exam) and part II (oral exam) of the candidacy exam.
- The dissertation advisory committee is formed, consisting of a chair, approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.
- Completion of CITI and RCR Workshops

Independent Learning

The Physics PhD program requires a doctoral dissertation. This will provide ample opportunities for students to gain independent learning experience through studying published research papers, conducting research, and presenting their results in conferences and in peer-reviewed scientific journals.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- The Physics Subject Test of the GRE is optional.
- Three letters of recommendation.
- Statement of goals. The final 1-2 paragraphs of each applicant's personal statement should make explicitly clear which research areas and faculty they have interest in working with within our program.
- Résumé.

Students entering the Physics graduate program with regular status are normally expected to have completed course work generally required for a bachelor's degree in physics, including mechanics, electricity and magnetism, thermal and statistical physics, and quantum mechanics.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Physics PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Abdelkader Kara PhD

Professor

Abdelkader.Kara@ucf.edu

Telephone: 407-823-5146

PSB 303

Esperanza Soto Arcino

Graduate Admissions Coordinator

soto@ucf.edu

Telephone: 407-823-5146

PSB 432

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Physics PhD, Planetary Sciences Track

College: Sciences	Degree: PhD
Department: Physics	Option: Dissertation
Program Websites: https://sciences.ucf.edu/physics/	
Graduate Program Handbook	

Track Description

The goal of the Planetary Sciences Track of the Physics PhD program is to foster a vibrant planetary science research environment that can attract top students, researchers, and faculty and contribute significantly to the exploration of space. The Planetary Sciences track is designed to prepare students to be competitive in the global planetary sciences research community.

Curriculum

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree. 42 Credit Hours Minimum beyond the Master's Degree.

This includes completion of 6 required courses (18 credit hours), 5 elective courses (15 credit hours) of regular course work, and a minimum of 15 credit hours of dissertation. Courses must be selected so that at least 36 of the 72 hours are at 6000 level or higher. No more than 12 hours of independent study may be credited toward the PhD degree. The PhD includes a Candidacy Exam to be taken after the completion of the core and elective courses, a written dissertation, and a dissertation defense before the student's Dissertation Advisory Committee. All courses must be selected in consultation with and with the approval of the Supervisory Committee (before candidacy) or Dissertation Advisory Committee (after candidacy).

Required Courses: 18 Credit Hours

The core is designed to give students a broad foundation in the planetary sciences and a rapid training in the data analysis techniques that will be necessary for a successful research and publications.

- AST 5151 - Physics of Planetary Processes **3 Credit Hours**
- PHY 6246 - Classical Mechanics **3 Credit Hours**
- AST 5765C - Advanced Astronomical Data Analysis **3 Credit Hours**
- AST 5263 - Advanced Observational Astronomy **3 Credit Hours**
- AST 5154 - Advanced Planetary Geophysics **3 Credit Hours**
- AST 6165 - Planetary Atmospheres **3 Credit Hours**

Elective Courses: 15 Credit Hours

Students may enroll in elective formal courses relevant to their program, as approved by their Supervisory Committees. Suggestions include:

- AST 5145 - Advanced Asteroids, Comets, and Meteorites **3 Credit Hours**
- AST 5334 - Extrasolar Planets and Brown Dwarfs **3 Credit Hours**
- AST 5937 - Astrobiology **3 Credit Hours**
- AST 6112 - Origin and Evolution of Planetary Systems **3 Credit Hours**
- AST 6156 - Current Topics in Planetary Sciences **3 Credit Hours**

Other Electives: 24 Credit Hours

This may include any form of graduate credit not used for other requirements and consistent with restrictions stated elsewhere in the program.

Dissertation: 15 Credit Hours

- AST or PHY 7980 - Dissertation **15 Credit Hours**

Supervisory Committee

Within the first half-semester of admission to the Planetary Sciences Track, each student must select, by mutual agreement, a faculty adviser and at least two other faculty members to serve on the Supervisory Committee. UCF graduate faculty and UCF self-funded research scientists who are Graduate Faculty Scholars are eligible to serve on Supervisory Committees. Creation of and changes in the membership of a Supervisory Committee must be approved by the Planetary Sciences Graduate Committee. The adviser is expected to meet regularly with the student. The full committee shall meet with the student at least once per year to review and make recommendations regarding the student's academic progress.

Candidacy Examination

The Planetary Sciences Track requires a Candidacy Exam to be taken after the completion of the core courses. This examination is composed of written and oral components. The written component is a journal-level research paper. The oral component has two parts: (1) A public presentation of the research contained in the paper, including the traditional question-and-answer period of a scientific presentation; and (2) private questioning on the detail of the presented research as well as the topics covered in the student's preparation, coursework and dissertation direction. The Supervisory Committee administers the Candidacy Examination.

Dissertation Advisory Committee

After passing the Candidacy Examination, a non-UCF member shall be added to the Supervisory Committee by mutual agreement of the student and Supervisory Committee. This becomes the Dissertation Advisory Committee. The committee continues to meet with the student annually.

Dissertation Proposal

The dissertation proposal may be presented immediately after the Candidacy Examination or in a separate meeting not more than one semester thereafter. Before substantial work is done on the Dissertation Advisory Committee must approve the proposal and must also assess whether additional coursework is necessary to begin the dissertation. Such coursework should be completed at the earliest opportunity and before substantial work is done on the dissertation. If the committee does not accept the proposal, it may be resubmitted and re-defended at any time, but no later than three months after the last attempt. If not accepted within one year of the Candidacy Examination the committee may, at its option, discontinue the student from the program.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all required and formal elective course work, except for research hours.
- Successful completion of the Candidacy Examination.
- The Dissertation Advisory Committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.
- Completion of CITI and RCR Workshops.

Dissertation Defense

The dissertation defense is the final requirement for the PhD. It consists of a public presentation of the dissertation, typically lasting 45-60 minutes including the traditional question-and-answer period of a scientific presentation, followed by private questioning by the Dissertation Advisory Committee. Procedures are similar to the Candidacy Examination.

Independent Learning

A dissertation is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Statement of goals.
- Students entering the Planetary Sciences graduate track program with regular status are normally expected to have completed coursework generally required for a bachelor's degree in a closely related science field such as physics, astronomy, geology, geophysics, atmospheric sciences, chemistry, biology, mathematics or planetary sciences.
- CV or Résumé.

Additional courses may also be required to correct any course deficiencies for those applicants without full preparation in physics and astronomy. Students should contact the graduate program director for further information.

Current students in the existing Physics graduate program wishing to switch to the Planetary Sciences track must submit a letter to the Planetary Science Graduate Committee addressed to Dr. Dan Britt. The letter should include the request to join the planetary sciences track, the student's degree goal (Masters or PhD), the name of the student's planetary sciences adviser, and a brief description of their expected area of research. Upon departmental approval, a Graduate Status Change Form will be submitted to the College of Graduate Studies.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree. For information on the Planetary Sciences track contact the Planetary Sciences Graduate Advisor Dr. Dan Britt at 407-823-2600 or dbritt@ucf.edu.

Application Deadlines

Planetary Sciences	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 15	Jul 1	Dec 1	

International Applicants	Dec 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Contact Info

Graduate Program

Daniel Britt PhD

Pegasus Professor
 dbritt@ucf.edu
 Telephone: 407-823-2600
 PSB 442

Esperanza Soto Arcino

Graduate Admissions Coordinator
 soto@ucf.edu
 Telephone: 407-823-5146
 PSB 432

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

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Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Public Affairs PhD

College: Community Innovation and Education	Degree: PhD
Department: School of Public Administration	Option: Dissertation
Program Website: https://ccie.ucf.edu/public-administration/public-affairs-phd/	
Graduate Program Handbook	

Program Description

The Doctoral Program in Public Affairs is designed to prepare graduates to advance research and theory by exploring topics at the leading edge of public affairs. To achieve this goal, the program builds on a set of four foundational core courses that explore the intellectual history of public administration, the principal theories of public organizational

theory and behavior, the public policy process, including policy formulation and implementation, and advanced public policy analysis. Students will appreciate and apply an understanding of social, economic, political, and technological factors that shape governance through formal and informal processes and actions.

The program matches the career goals of students through the interdisciplinary nature of course content, the interaction with faculty, and the flexibility inherent in the choice of program concentrations and electives. Those seeking advancement within public agencies or nonprofit organizations can choose a mix of electives, including course work from other UCF programs, while those seeking to teach at the college or university level will focus on specialization courses within their discipline.

More specifically, the graduates of this doctoral program will demonstrate the ability to: 1) attain and apply knowledge and understanding of the complex relationships that characterize public affairs and policy; 2) conduct and lead original research, 3) become professional individuals either in academia or in other positions related to public administration, public affairs, and policy.

Program Tracks

The Doctoral Program in Public Affairs offers prospective applicants who do not have a graduate degree the opportunity to apply to the Public Affairs PhD - Public Administration MPA Dual Degree Track.

The Public Affairs PhD - Public Administration MPA Dual Degree Track provides academically talented students an opportunity to earn the Doctor of Philosophy in Public Affairs and the Master of Public Administration degrees concurrently. Students successfully completing the PhD/MPA Dual Degree program will have the skills and analytical techniques for careers in academia or in the public and nonprofit sectors. After successful completion of the PhD/MPA Dual Degree program, students will receive two diplomas, one for the Public Administration MPA degree and one for the Public Affairs PhD degree.

Students seeking admission to the PhD/MPA Dual Degree program should apply directly to the Public Affairs PhD - Public Administration MPA Dual Degree Track. Only one application will be required. If admitted, students will be active in both the Public Administration MPA and the Public Affairs PhD programs but will be required to complete all coursework for the MPA program prior to starting any coursework required for the PhD program.

Curriculum

Coursework in the Doctoral Program in Public Affairs program consists of a minimum of 57 hours beyond the master's degree divided across four components:

- Core courses (12 hours)
- Research methods (12 hours)
- Area of specialization (18 hours)
- Dissertation research (15 hours).

For the Public Affairs Ph.D. - Public Administration MPA Dual Degree Track, students will complete an additional 24 credit hours required for the MPA.

Total Credit Hours Required: 57 Credit Hours Minimum beyond the Master's Degree

A maximum of 6 credit hours of Independent Study may be used to satisfy elective requirements with adviser's approval.

Transfer work will only be accepted by the Public Affairs Ph.D. program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to moving forward in the program. Any student who receives more than one "C" in their doctoral coursework may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral coursework will be dismissed from the program.

Required Courses: 24 Credit Hours

Core Curriculum: 12 Credit Hours

- PAD 7006 - Intellectual History of Public Administration **3 Credit Hours**
- PAD 7016 - Public Policy Processes and Theory **3 Credit Hours**
- PAD 7106 - Public Organization Theory and Behavior **3 Credit Hours**
- PAD 7308 - Advanced Public Policy Analysis **3 Credit Hours**

Research Methods: 12 Credit Hours

- PAD 7706 - Advanced Research Design for Public Administration and Policy **3 Credit Hours**
- PAD 7701 - Quantitative Methods for Public Administration & Policy I **3 Credit Hours**
- PAD 7756 - Quantitative Methods for Public Administration and Policy II **3 Credit Hours**
- PAD 7709 - Advanced Qualitative Methods for Public Administration and Policy **3 Credit Hours**

Area of Specialization: 18 hours

Suggested areas of specialization are comprised of graduate courses offered by the School of Public Administration's existing graduate degree programs. Doctoral students are expected to complete additional readings and assignments in addition to those required for Master's students enrolled in those courses. Students complete four recommended courses for their chosen specialization (substitutions will be allowed with the approval of the program director, and students may create their own specialization with advance approval from the program director) and 6 credit hours of directed research in which the student conducts independent research in the area of their anticipated dissertation topic with their advisor. The concentrations identified below are exemplary and not exclusive. It is important to note that many students interested in pursuing a research career will find it necessary to supplement the quantitative methods sequence with additional coursework in analytic methods or public economics, which may also be provided through the directed study courses in consultation with the program director and their dissertation chair. Concentrations include but are not limited to:

- Public Policy Analysis
- Public Budgeting & Finance
- Public Management
- Urban Policy
- Emergency Management
- Nonprofit Management
- Collaborative Governance
- Comparative Public Administration

Public Policy Analysis

- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6307 - Public Policy Analysis and Management **3 Credit Hours**
- PAD 6616 - Economic Principles for Public Policy and Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**

*Additional courses available with program director approval

Public Budgeting & Finance

- PAD 6207 - Public Financial Management **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6238 - Revenue Policy and Administration **3 Credit Hours**
- PAD 6260 - Fundamentals of Public Sector Accounting **3 Credit Hours**
- PAD 6616 - Economic Principles for Public Policy and Management **3 Credit Hours**

*Additional courses available with program director approval

Public Management

- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**
- PAD 6439 - Leadership in Public Service **3 Credit Hours**
- PAD 6705 - Public Sector Communications **3 Credit Hours**

*Additional courses available with program director approval

Urban Policy

- PAD 6200 - International Emergency and Crisis Management **3 Credit Hours**
- PAD 6339 - Housing Development and Planning **3 Credit Hours**
- PAD 6387 - Transportation Policy **3 Credit Hours**
- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**
- URP 6711 - Sustainable Transportation Planning **3 Credit Hours**

*Additional courses available with program director approval

Emergency Management

- PAD 6357 - Urban Resilience **3 Credit Hours**
- PAD 6397 - Managing Emergencies and Crises **3 Credit Hours**
- PAD 6399 - Foundations of Emergency Management and Homeland Security **3 Credit Hours**
- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**
- PAD 6825 - Cross-Sectoral Governance **3 Credit Hours**

*Additional courses available with program director approval

Nonprofit Management

- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
*Additional courses available with program director approval

Collaborative Governance

- PAD 6825 - Cross-Sectoral Governance **3 Credit Hours**
- PAD 6829 - Network Analysis in Public Policy and Management **3 Credit Hours**
- PAD 7827 - Network Governance **3 Credit Hours**
*Additional courses available with program director approval

Comparative Public Administration

- PAD 5930 - Global Cities **3 Credit Hours**
- PAD 6357 - Urban Resilience **3 Credit Hours**
- PAD 6836 - Comparative Global Public Administration **3 Credit Hours**
*Additional courses available with program director approval

Dissertation: 15 Credit Hours

Each student must defend a dissertation proposal before their committee. This defense must occur within one long semester (i.e., fall or spring semester) of completing the qualifying examination. Failure to defend a prospectus within one long semester will result in dismissal from the program.

The dissertation must be the student's original work and must be a significant contribution to public affairs theory. Students have the option of completing a traditional research monograph or three high-quality, distinct, but closely related papers, which each deliver practically significant findings sufficient to stand on their own as independent publications. Each completed dissertation must be defended before a committee of the graduate faculty; the student will be expected to demonstrate not only a thorough understanding of the dissertation's context but also extensive knowledge of the broader discipline of which the dissertation is a part.

- PAF 7980 Doctoral Dissertation

Examinations

Committee: The committee must include the prospective chair of the student's dissertation committee and three other members selected by the chair in consultation with the student. During or prior to the semester during which completion of the qualifying examination is anticipated, students must select a dissertation committee (3 members from the public administration faculty, one of whom will serve as chair, plus an outside member). This committee will oversee the qualifying examination, dissertation proposal, and dissertation.

Core Exam: Students who have passed each of the core courses will complete a written core examination at the conclusion of their initial year in the program. The exam will consist of questions drawn from each core course and developed by the instructor of record. The take-home exam will be administered by the Ph.D. program director in an open note, time-limited format. The Ph.D. faculty committee (consisting of core course instructors) will assess each student's response to their substantive question. Students failing the examination will be allowed a second attempt within six months of the first attempt. If a student's second core examination attempt is unsuccessful, the student will be dismissed from the program.

Qualifying Examination: At the conclusion of program coursework, when all curricular requirements have been met, students must complete the qualifying examination to be entered into candidacy for the degree. The examination will consist of a two-day written and an oral component, both on campus and closed book, during which students will be

required to demonstrate familiarity with literature, theory, and analysis to the satisfaction of the committee. The student must pass both the written and oral components to proceed in the program. Failure of either component will require that both be retaken within six months. If the student fails a second time, he/she will be dismissed from the program. The qualifying examination must be taken initially within one year of all course work being completed.

Candidacy

Students can officially obtain candidacy status when they have passed the core and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining electives included, and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Core and Qualifying Exams
2. Form an appropriate Dissertation Committee by the established university deadline:
 1. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
 2. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
 3. At least three, and a majority of the committee, must be members of the Graduate Faculty
 4. At least one member must be from outside the department (or college, if a college-wide program)
 5. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice-Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice-Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings.
5. Complete PAF Notification of Doctoral Candidacy form.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Doctoral Program in Public Affairs will be open to applicants with an earned Master's degree in public administration or a closely-related discipline, including but not limited to political science, economics, management, public policy, criminal justice, social work, or public health. The program encourages applicants with diverse academic backgrounds, with preference given to those with grounding in the policy or administrative sciences drawing from fields aligned with the previously mentioned Ph.D. program concentrations.

Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum admission standards does not guarantee program admissions. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Administration and Policy fields.

In addition to UCF's Admission Standards, the program requires applicants to meet the following requirements:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelors and master's degrees showing a GPA of 3.5 or better in both degrees.

- Official, competitive GRE score taken within the last five years, is required by all applicants applying to the Ph.D. program (UCF's Institutional Code is 5233);
- A personal statement of 1000 words or less describing the applicant's educational expectations, career aspirations, any special qualifications or experiences that may enhance the overall learning environment, and the reasons for pursuing a Ph.D. in Public Affairs. The statement should also indicate how the applicant's research and career interests fit with those of the current faculty;
- Three letters of recommendation from professors or professionals who can assess the applicant's ability to succeed in a research-oriented doctoral program;
- A current resume;
- At least one writing sample, i.e., academic paper, report, etc.
- Evidence of adequate background in Calculus.

International students:

- In addition to official transcripts and certification of degrees, a course-by-course credential evaluation with GPA calculation is required of all students who have attended a college/university outside the United States. UCF accepts transcript evaluations from the following two agencies only: Josef Silny and Associates, Inc, or World Education Services (WES).
- International students, except those who are from countries where English is the only official language, those who have earned a degree from a regionally accredited US college or university, or those who have earned a degree from a country where English is the only official language of instruction, are required to submit a score on the Test of English as a Foreign Language (TOEFL). Although we prefer the TOEFL, we will also accept International English Testing System (IELTS) scores. Students who are non-native speakers of English (and do not have a degree from a U.S. institution) must pass the English Speaking test administered by the UCF English Institute before they will be permitted to teach as a Graduate Teaching Associate or Graduate Teaching Assistant.

Application Deadlines

Public Affairs PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Feb 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jeremy Hall PhD

Professor and Public Affairs Program Coordinator

Jeremy.Hall@ucf.edu

Telephone: 407-823-1921

DPAC, 448R

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
 http://finaid.ucf.edu

Public Affairs PhD, Criminal Justice Track

College: Community Innovation and Education	Degree: PhD
Department: School of Public Administration	Option: Dissertation
Program Website: https://ccie.ucf.edu/public-administration/public-affairs-phd/	
Graduate Program Handbook	

Track Description

This program has been suspended effective Fall 2021.

The Doctoral Program in Public Affairs is an interdisciplinary program drawing from the strengths of faculty in Criminal Justice, Health Management and Informatics, Public Administration, and Social Work. The Criminal Justice Track prepares students for academic positions in colleges and universities as well as research and leadership positions in public, nonprofit and private agencies. The dynamic mix of an interdisciplinary faculty with students of varied backgrounds creates a stimulating environment to examine contemporary organizational, institutional and community problems and issues. Graduates possess the theoretical, analytical and ethical foundation to produce new knowledge that impacts policies and programs and enhances institutional and community performance.

Curriculum

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit hour required Public Affairs substantive core
- a six-course, 18-credit hour required Public Affairs methodological and statistical core
- a three-course, 9-credit hour required discipline-specific specialization
- a two-course, 6-credit hour unrestricted elective requirement
- a one course, 3-credit hour required Public Affairs practicum
- 15 credit hours of dissertation minimum

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization or elective component is

dependent upon the approval of the Track Coordinator in consultation with the PAF Program Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all substantive core and methodological core courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one grade of C+ or lower in their doctoral course work may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

Required Courses: 45 Credit Hours

Public Affairs Substantive Core: 9 Credit Hours

- PAF 7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms **3 Credit Hours**
- PAF 7230 - Strategic Change and Management for Public Affairs **3 Credit Hours**
- PAF 7317 - Social Inquiry and Public Policy **3 Credit Hours**

Methodological and Statistical Core: 18 Credit Hours

- PAF 7802 - Advanced Research Methodology for Public Affairs **3 Credit Hours**
- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods **3 Credit Hours**
- PAF 7820 - Qualitative Methods for Public Affairs **3 Credit Hours**
- PAF 7325 - Policy and Program Evaluation for Public Affairs **3 Credit Hours**

Advanced Methodology

Choose one of the following courses:

- PAF 7868 - Public Affairs Mixed Methods Research **3 Credit Hours**
- PAF 7856 - Applications of Structural Equation Modeling in Public Affairs **3 Credit Hours**
- Pre-approved methodological or statistical course **3 Credit Hours**

Community-based Research: 3 Credit Hours

At the end of the required coursework, students will take the Community-Based Research course (PAF 7947). Led by a professor, the course provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

- PAF 7947 - Public Affairs Community-Based Research **3 Credit Hours**

Track Specialization: 15 Credit Hours

Students are required take three of the following courses:

- CJE 6456 - Seminar in Policing Urban Communities **3 Credit Hours**
- CJE 6320 - Seminar in Police Administration **3 Credit Hours**
- CJE 6706 - Seminar in Police Socialization and Culture **3 Credit Hours**
- CJC 6135 - Seminar in Institutional Corrections **3 Credit Hours**
- CJC 6165 - Seminar in Community Corrections **3 Credit Hours**
- CJC 6486 - Seminar in Correctional Effectiveness **3 Credit Hours**
- CCJ 6XXX - Juvenile Justice (Prerequisite: The Juvenile Justice System) **3 Credit Hours**
- CJJ 6546 - Seminar in Policing and Prevention in the Juvenile Justice System **3 Credit Hours**
- CJJ 6124 - Seminar in Prosecuting Juvenile Offenders **3 Credit Hours**
- CJJ 6126 - Seminar in Juvenile Corrections **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**

Choose two additional courses from the following list:

- See adviser for appropriate methodological elective **3 Credit Hours**
- Directed independent study **3 Credit Hours**
- Or other course that will add to the student's course of study. Requires approval of adviser. **3 Credit Hours**

Dissertation: 15 Credit Hours

- PAF 7980 - Dissertation Research

Assignment of Faculty Advisers

Upon acceptance of a student into the program, the program director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student's program of study. Criminal Justice Track students will be advised by the Criminal Justice Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

Research Proficiency Exam and Qualifying Exam

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy Status

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
 - a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
 - b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
 - c. At least three, and a majority of the committee, must be members of the Graduate Faculty
 - d. At least one member must be from outside the department (or college, if a college-wide program)
 - e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Equipment Fee

Full-time students in the Public Affairs Program pay a \$40 equipment fee each semester that they are enrolled. Part-time students pay \$20 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. Any requirements for preparatory coursework will be communicated at the time of acceptance into the program and will generally be taken prior to beginning doctoral-level coursework. These courses, if required, will not substitute for the listed doctoral degree requirements. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
 - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
 - What research areas, pertaining to Public Affairs are you interested in researching?
 - What will be your contribution as a student to the program?

- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.)
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines

Criminal Justice	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Matt Nobles PhD
 Professor
 mnobles@ucf.edu

Telephone: 407-823-0821
HPA 1, Room 317

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Public Affairs PhD, Governance and Policy Research Track

College: Community Innovation and Education	Degree: PhD
Department: School of Public Administration	Option: Dissertation

Program Website: <https://ccie.ucf.edu/public-administration/public-affairs-phd/>

Graduate Program Handbook

Track Description

This program has been suspended effective Fall 2021.

The Governance and Policy Track in the Public Affairs PhD program prepares students to perform high-quality policy-relevant research concerned with governance and public policy issues, primarily those with national and global implications. Students are empowered to provide unbiased, evidence-based information that is directly relevant to real public-policy problems.

Curriculum

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Students must complete 60 credit hours beyond the master's degree, including 15 courses (45 credit hours) above the master's level distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit hour electives (may be taken outside the student's discipline)
- a one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

Students are required to take a statistical assessment the summer semester prior to their entering the program fall semester. This assessment will be used to determine a student's statistical knowledge and competency. Students that receive a passing score will be exempt from taking a 6XXX level statistics course. Those students requiring the 6XXX level course will meet with the Track Coordinator to determine which course will meet the requirement. Students are required to complete and pass the course prior to registering in PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis. The 6XXX level course credit hours may be included in the student's program of study as an elective.

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization and general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to taking the Qualifying Exam. Any student who receives more than one grade of "C+" or lower in their doctoral course work may be dismissed from the Public Affairs program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

Required Courses: 45 Credit Hours

Public Affairs Substantive Core: 9 Credit Hours

- PAF 7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms **3 Credit Hours**
- PAF 7230 - Strategic Change and Management for Public Affairs **3 Credit Hours**
- PAF 7317 - Social Inquiry and Public Policy **3 Credit Hours**

Methodological and Statistical Core: 18 Credit Hours

- PAF 7802 - Advanced Research Methodology for Public Affairs **3 Credit Hours**
- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods **3 Credit Hours**
- PAF 7820 - Qualitative Methods for Public Affairs **3 Credit Hours**
- PAF 7325 - Policy and Program Evaluation for Public Affairs **3 Credit Hours**

Advanced Methodology

Choose one of the following courses:

- PAF 7868 - Public Affairs Mixed Methods Research **3 Credit Hours**
- PAF 7856 - Applications of Structural Equation Modeling in Public Affairs **3 Credit Hours**
- Pre-approved methodological or statistical course **3 Credit Hours**

Community-based Research: 3 Credit Hours

At the end of the required coursework, students will take the PAF 7947 - Public Affairs Community-Based Research . Led by a professor, the Community-based Research provides students with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

Track Specialization: 9 Credit Hours

Students are required take the following three courses and attain a "B-" or higher:

- PAF 7055 - Seminar in State and Local Government Policy Research **3 Credit Hours**
- PAF 7510 - Seminar in Policy Evaluation and Performance Measurement **3 Credit Hours**
- PAF 7858 - Advanced Seminar in Governance and Policy Research **3 Credit Hours**

Elective: 6 Credit Hours

Choose two additional courses from the following courses:

- PAF 7757 - Seminar in Global Governance and Policy Research **3 Credit Hours**
- See adviser for appropriate methodological elective **3 Credit Hours**

- Directed independent study **3 Credit Hours**
- Or other course that will add to the student's course of study. Requires approval of adviser. **3 Credit Hours**

Dissertation: 15 Credit Hours

- PAF 7980 Dissertation Research

Assignment of Faculty Advisers

Upon acceptance of a student into the program, the PAF Program Director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student's program of study. Governance and Policy Research Track students will be advised by the Governance and Policy Research Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

Qualifying Examination

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy Status

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
 - a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
 - b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
 - c. At least three, and a majority of the committee, must be members of the Graduate Faculty
 - d. At least one member must be from outside the department (or college, if a college-wide program)

- e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
- 3. Have no more than 6 total credit hours of coursework remaining (including electives)
- 4. Complete all required RCR Workshops and CITI Integrity Trainings
- 5. Complete PAF Notification of Doctoral Candidacy form

Equipment Fee

Full-time students in the Public Affairs Program pay a \$40 equipment fee each semester that they are enrolled. Part-time students pay \$20 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants who do not have a master's degree in a field directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. This preparatory course work requirement will be communicated at the time of acceptance into the program. These courses will not substitute for the doctoral degree requirements and will generally be taken prior to beginning the doctoral level course work. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less describing the applicant's educational expectations, career aspirations, level of computer skills, and any special qualifications or experiences that may enhance the overall learning environment of the PAF program.
- Résumé.
- A writing sample, i.e., academic paper, report, etc.
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program.

Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines

Governance and Policy Research	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Lawrence Martin PhD
 Professor
 lawrence.martin@ucf.edu
 Telephone: 407-823-5731
 DPAC 440C

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Public Affairs PhD, Health Services Management and Research Track

College: Community Innovation and Education	Degree: PhD
Department: School of Public Administration	Option: Dissertation
Program Websites: https://ccie.ucf.edu/public-administration/public-affairs-phd/	
Graduate Program Handbook	

Track Description

This program has been suspended effective Fall 2021.

The Doctoral Program in Public Affairs is an interdisciplinary program that includes the professional and academic expertise of faculty in the fields of Criminal Justice, Health Management and Informatics, Public Administration, and Social Work. The Health Services Management and Research Track prepares students for academic positions in colleges and universities as well as research and leadership positions in public, nonprofit and for profit agencies and organizations.

A dynamic mix in the Public Affairs Doctoral Program of an interdisciplinary faculty and students from varied backgrounds creates a stimulating environment in which to examine contemporary organizational, institutional and community challenges. Graduates of the PAF Doctoral Program possess the theoretical, analytical and ethical foundation to discover new knowledge that will impact affirmatively public policy decisions and develop programs and systems that will enhance the delivery of services to an expectant and unyielding public.

Curriculum

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit unrestricted elective requirement
- a one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization and a general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all substantive core and methodological core courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one "C" in their doctoral course work may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

Required Courses: 45 Credit Hours

Public Affairs Substantive Core: 9 Credit Hours

- PAF 7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms **3 Credit Hours**
- PAF 7230 - Strategic Change and Management for Public Affairs **3 Credit Hours**
- PAF 7317 - Social Inquiry and Public Policy **3 Credit Hours**

Methodological and Statistical Core: 18 Credit Hours

- PAF 7802 - Advanced Research Methodology for Public Affairs **3 Credit Hours**
- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods **3 Credit Hours**
- PAF 7820 - Qualitative Methods for Public Affairs **3 Credit Hours**

- PAF 7325 - Policy and Program Evaluation for Public Affairs **3 Credit Hours**

Advanced Methodology

Choose one of the following courses:

- PAF 7868 - Public Affairs Mixed Methods Research **3 Credit Hours**
- PAF 7856 - Applications of Structural Equation Modeling in Public Affairs **3 Credit Hours**
- Pre-approved methodological or statistical course **3 Credit Hours**

Community-based Research: 3 Credit Hours

At the end of the required coursework, students will take the PAF 7947 - Public Affairs Community-Based Research. Led by a professor, the Community-based Research provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

- PAF 7947 - Public Affairs Community-Based Research **3 Credit Hours**

Track Specialization: 15 Credit Hours

Students are required to take the following three courses:

- HSA 7116 - Theories in Healthcare Management **3 Credit Hours**
- HSA 7936 - Advanced Seminar in Health Economics **3 Credit Hours**
- HSA 7938 - Advanced Seminar in Health Services Research **3 Credit Hours**

Choose two additional courses from the following list:

- HSA 6108 - Health Care Organization and Management II **3 Credit Hours**
- HSA 6128 - Health Care Services Management **3 Credit Hours**
- HSA 6342 - Health Care Human Resources **3 Credit Hours**
- PHC 6000 - Epidemiology **3 Credit Hours**
- PHC 6146 - Health Planning and Policy **3 Credit Hours**
- PHC 6160 - Health Care Finance **3 Credit Hours**
- HSA 7125 - Globalization and Health **3 Credit Hours**
- See adviser for appropriate methodological elective **3 Credit Hours**
- Directed independent study **3 Credit Hours**
- Or other course that will add to the student's course of study. Requires approval of adviser. **3 Credit Hours**

Dissertation: 15 Credit Hours

- PAF 7980 Dissertation Research

Assignment of Faculty Advisers

Upon acceptance of a student into the program, the program director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student's program of study. Health Services Management and Research Track students will be advised by the Health Services Management and Research Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

Research Proficiency Exam and Qualifying Exam

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy Status

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
 - a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
 - b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
 - c. At least three, and a majority of the committee, must be members of the Graduate Faculty
 - d. At least one member must be from outside the department (or college, if a college-wide program)
 - e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Equipment Fee

Full-time students in the Public Affairs Program pay a \$40 equipment fee each semester that they are enrolled. Part-time students pay \$20 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. Any requirements for preparatory coursework will be communicated at the time of acceptance into the program and will generally be taken prior to beginning doctoral-level coursework. These courses, if required, will not substitute for the listed doctoral degree requirements. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
 - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans
 - What research areas pertaining to Public Affairs are you interested in researching?
 - What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.)
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines

Health Services Management and Research	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Su-I Hou PhD

Professor

Su-I.Hou@ucf.edu

Telephone: 407-823-3344

DPAC, Room 404H

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Public Affairs PhD, Public Administration MPA Dual Degree Track

College: Community Innovation and Education	Degree: PhD
Department: School of Public Administration	Option: Dissertation
Program Website: https://ccie.ucf.edu/public-administration/public-affairs-phd/	
Graduate Program Handbook	

Track Description

The Public Affairs PhD - Public Administration MPA Dual Degree Track provides academically talented students an opportunity to earn the Doctor of Philosophy in Public Affairs and the Master of Public Administration degrees concurrently. Students successfully completing the PhD/MPA Dual Degree program will have the skills and analytical techniques for careers in academia or in the public and nonprofit sectors. After successful completion of the PhD/MPA Dual Degree program, students will receive two diplomas, one for the Public Administration MPA degree and one for the Public Affairs PhD degree.

Students seeking admission to the PhD/MPA Dual Degree program should apply directly to the Public Affairs PhD - Public Administration MPA Dual Degree Track. Only one application will be required. If admitted, student will be active in both the Public Administration MPA and the Public Affairs PhD programs.

Curriculum

The Public Administration MPA Dual Degree track in the Public Affairs PhD program consists of 84 credit hours, including 63 credit hours of required courses, 6 credit hours of electives approved by the student's faculty adviser or program director, and 15 credit hours of dissertation. For required courses, students must first complete seven core courses plus the capstone course for the MPA program (24 credit hours) before enrolling in doctoral level courses. Doctoral level courses are reserved for students who have successfully completed all master's degree requirements. Once a student has completed all master's level coursework, then that student will take three Public Affairs substantive

core courses and six Public Affairs methodological and statistical core courses for the PhD program (30 credit hours), plus five elective courses (15 credit hours).

Total Credit Hours Required: 84 Credit Hours Minimum beyond the Bachelor's Degree

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

A grade of "B-" or better is required in all courses listed under the MPA requirement and Public Affairs requirements. Students receiving a grade below a "B-" in the Substantive Core or Methodological Core must repeat the course and receive an acceptable grade prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one grade of "C" in their doctoral course work may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their master's level or doctoral course work will be dismissed from the program.

Required Courses: 63 Credit Hours

Required Courses for MPA: 24 Credit Hours

In addition to the following required courses, the MPA degree will include 6 credit hours of advanced research methods and quantitative methods in Public Affairs and 12 credit hours of electives that are incorporated into the prescribed PhD curriculum.

- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**
- PAD 6207 - Public Financial Management **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**
- PAD 6062 - Advanced Concepts and Applications in Public Administration **3 Credit Hours**

Required Courses for PhD: 39 Credit Hours

Public Affairs Substantive Core: 9 Credit Hours

- PAF 7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms **3 Credit Hours**
- PAF 7230 - Strategic Change and Management for Public Affairs **3 Credit Hours**
- PAF 7317 - Social Inquiry and Public Policy **3 Credit Hours**

Methodological and Statistical Core: 18 Credit Hours

- PAF 7802 - Advanced Research Methodology for Public Affairs **3 Credit Hours**
- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods **3 Credit Hours**
- PAF 7820 - Qualitative Methods for Public Affairs **3 Credit Hours**
- PAF 7325 - Policy and Program Evaluation for Public Affairs **3 Credit Hours**

Advanced Methodology (Select one course):

- PAF 7868 - Public Affairs Mixed Methods Research **3 Credit Hours**
- PAF 7856 - Applications of Structural Equation Modeling in Public Affairs **3 Credit Hours**
 - Pre-approved methodological or statistical course **3 Credit Hours**

Community-based Research: 3 Credit Hours

At the end of the required coursework, students will take the Community-based Research in Community-Based Research course (PAF 7XXX). Led by a professor, the Community-based Research provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

Track Specialization: 9 Credit Hours

Students take the following three courses:

- PAD 7026 - Advanced Seminar in Public Administration **3 Credit Hours**
- PAD 7057 - Advanced Public Management **3 Credit Hours**
- PAD 7827 - Network Governance **3 Credit Hours**

Elective Courses: 6 Credit Hours

The two required elective courses (3 credit hours each) offered within the dual degree provide an emphasis on public and nonprofit management; however, other emphases may be developed in consultation with the adviser. With prior approval from the Program Director, up to 6 credit hours of elective course work may be taken from outside the department. Students must show that elective courses taken outside of the department directly support an academic or professional career in public administration.

Students take two of the following courses:

- PAD 7317 - Program Design and Management **3 Credit Hours**
- PAD 7707 - Advanced Research in Public Administration **3 Credit Hours**
- Methodological elective approved by adviser **3 Credit Hours**
- Directed independent study **3 Credit Hours**
- Pre-approved methodological or statistical course **3 Credit Hours**

Dissertation: 15 Credit Hours

- PAF 7980 Dissertation Research

Research Proficiency Exam and Qualifying Exam

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
 - a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
 - b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
 - c. At least three, and a majority of the committee, must be members of the Graduate Faculty
 - d. At least one member must be from outside the department (or college, if a college-wide program)
 - e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Additional Program Requirements

Students initially admitted to the MPA/PhD dual degree program who subsequently decide they only want to receive the MPA degree may have all applicable courses completed as part of the two degree programs applied to the MPA degree program without being counted as transfer courses.

Equipment Fee

Full-time students in the Public Affairs PhD Program pay a \$40 equipment fee each semester that they are enrolled. Part-time students pay \$20 per semester.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers and the dissertation contribute to the self development of MPA/PhD students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
 - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
 - What research areas pertaining to Public Affairs are you interested in researching?
- What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.).
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines

Public Administration MPA Dual Degree	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships

are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jeremy Hall PhD

Professor and Public Affairs Program Coordinator

Jeremy.Hall@ucf.edu

Telephone: 407-823-1921

DPAC, 448R

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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PO Box 160112

Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Public Affairs PhD, Public Administration Track

College: Community Innovation and Education	Degree: PhD
Department: School of Public Administration	Option: Dissertation
Program Website: https://ccie.ucf.edu/public-administration/public-affairs-phd/	
Graduate Program	

Track Description

This program has been suspended effective Fall 2021.

The Doctoral Program in Public Affairs is an interdisciplinary program that includes the professional and academic expertise of faculty in the fields of Criminal Justice, Health Management and Informatics, Public Administration, and Social Work. The Public Administration Track prepares students for academic positions in colleges and universities as well as research and leadership positions in public, nonprofit and for profit agencies and organizations.

The Public Administration Track integrates the historical evolution of the public administration field, the current challenges in theory and practice in our increasingly interconnected society, and the future directions needed as a discipline and society to achieve responsive solutions to complex public problems.

Curriculum

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit unrestricted elective requirement
- one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization and a general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all courses, including Substantive Core, Methodological Core and Track Specialization/Elective courses. Students receiving a grade of C+ or below in the Substantive Core or Methodological Core courses must repeat the course and receive an acceptable grade prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one "C" in their doctoral coursework may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral coursework will be dismissed from the program.

Required Courses: 45 Credit Hours

Public Affairs Substantive Core: 9 Credit Hours

- PAF 7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms **3 Credit Hours**
- PAF 7230 - Strategic Change and Management for Public Affairs **3 Credit Hours**
- PAF 7317 - Social Inquiry and Public Policy **3 Credit Hours**

Methodological and Statistical Core: 18 Credit Hours

- PAF 7802 - Advanced Research Methodology for Public Affairs **3 Credit Hours**
- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods **3 Credit Hours**
- PAF 7820 - Qualitative Methods for Public Affairs **3 Credit Hours**
- PAF 7325 - Policy and Program Evaluation for Public Affairs **3 Credit Hours**

Advanced Methodology

Choose one of the following courses:

- PAF 7868 - Public Affairs Mixed Methods Research **3 Credit Hours**
- PAF 7856 - Applications of Structural Equation Modeling in Public Affairs **3 Credit Hours**
- Pre-approved methodological or statistical course **3 Credit Hours**

Community-based Research: 3 Credit Hours

At the end of the required coursework, students will take the PAF 7947 - Public Affairs Community-Based Research. Led by a professor, the Community-based Research provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

- PAF 7947 - Public Affairs Community-Based Research **3 Credit Hours**

Track Specialization: 9 Credit Hours

Students are required take the following three courses and attain a "B" or higher:

- PAD 7026 - Advanced Seminar in Public Administration **3 Credit Hours**
- PAD 7057 - Advanced Public Management **3 Credit Hours**
- PAD 7827 - Network Governance **3 Credit Hours**

Choose two additional elective courses from the following:

- PAD 7317 - Program Design and Management **3 Credit Hours**
- PAD 7707 - Advanced Research in Public Administration **3 Credit Hours**
- See adviser for appropriate methodological elective **3 Credit Hours**
- Directed independent study **3 Credit Hours**
- Or other course that will add to the student's course of study. Requires approval of adviser. **3 Credit Hours**

Dissertation: 15 Credit Hours

- PAF 7980 Dissertation Research

Assignment of Faculty Advisers

Upon acceptance of a student into the program, the program director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student's program of study. Public Administration Track students will be advised by the Public Administration Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

Research Proficiency Exam and Qualifying Exam

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy Status

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
 - a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
 - b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
 - c. At least three, and a majority of the committee, must be members of the Graduate Faculty
 - d. At least one member must be from outside the department (or college, if a college-wide program)
 - e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Equipment Fee

Full-time students in the Public Affairs Program pay a \$40 equipment fee each semester that they are enrolled. Part-time students pay \$20 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. Any requirements for preparatory coursework will be communicated at the time of acceptance into the program and will generally be taken prior to beginning doctoral-level coursework. These courses, if required, will not substitute for the listed doctoral degree requirements. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
 - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
 - What research areas pertaining to Public Affairs are you interested in researching?
 - What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.).
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines

Public Administration	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Thomas Bryer PhD
 Assistant Professor
 thomas.bryer@ucf.edu
 Telephone: 407-823-0410
 DPAC, 448A

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Public Affairs PhD, Social Work Track

College: Community Innovation and Education	Degree: PhD
Department: School of Public Administration	Option: Dissertation
Program Website: https://ccie.ucf.edu/public-administration/public-affairs-phd/	
Graduate Program Handbook	

Track Description

This program has been suspended effective Fall 2021.

The Social Work Track in the Public Affairs PhD program prepares students for university faculty and research positions, as well as leadership roles in public, non-profit and private human service, health and community-based agencies, drawing upon research and evaluation skills.

The Social Work Track in the Public Affairs PhD program prepares students for university faculty and research positions, as well as leadership roles in public, non-profit and private human service, health and community-based agencies, drawing upon research and evaluation skills. The track is designed to: (1) to develop student learning and competencies for social work scholarship and research, incorporating disciplinary knowledge in interdisciplinary contexts, and (2) to foster student learning in domains relevant to social work research in the 21st Century; namely through the understanding and application of concepts and tools in knowledge translation, evaluation, evidence-based research, the design of innovative social ventures, and the development and testing of interventions for improving social service practice, social welfare and social policy. Students applying to this track must have a Master of Social Work (MSW) for consideration.

Curriculum

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit unrestricted elective requirement
- one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization or general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components..

A grade of B- or better is required in all Substantive Core and Methodological Core courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one "C" in their doctoral course work may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

Required Courses: 45 Credit Hours

Public Affairs Substantive Core: 9 Credit Hours

- PAF 7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms **3 Credit Hours**
- PAF 7230 - Strategic Change and Management for Public Affairs **3 Credit Hours**
- PAF 7317 - Social Inquiry and Public Policy **3 Credit Hours**

Methodological and Statistical Core: 18 Credit Hours

- PAF 7802 - Advanced Research Methodology for Public Affairs **3 Credit Hours**
- PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis **3 Credit Hours**
- PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods **3 Credit Hours**
- PAF 7820 - Qualitative Methods for Public Affairs **3 Credit Hours**
- PAF 7325 - Policy and Program Evaluation for Public Affairs **3 Credit Hours**

Advanced Methodology

Choose one of the following courses:

- PAF 7868 - Public Affairs Mixed Methods Research **3 Credit Hours**
- PAF 7856 - Applications of Structural Equation Modeling in Public Affairs **3 Credit Hours**
- Pre-approved methodological or statistical course **3 Credit Hours**

Community-based Research: 3 Credit Hours

At the end of the required coursework, students will take the PAF 7947 - Public Affairs Community-Based Research. Led by a professor, the Community-based Research provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

Track Specialization: 9 Credit Hours

Students are required take the following three courses and attain a "B-" or higher:

- SOW 6383 - Social Work Administration **3 Credit Hours**
- SOW 7492 - Theory Building in Social Work and Applied Social Science Disciplines **3 Credit Hours**
- SOW 7494 - Conducting Evidence-based Practice Research in Social Work and Allied Fields **3 Credit Hours**

Electives: 6 Credit Hours

Choose two additional courses from the following:

Dissertation: 15 Credit Hours

- PAF 7980 Dissertation Research

Assignment of Faculty Advisers

Upon acceptance of a student into the program, the program director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student's program of study. Social Work Track students will be advised by the Social Work Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

Research Proficiency Exam and Qualifying Exam

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

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Candidacy Status

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
 - a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
 - b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
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 - d. At least one member must be from outside the department (or college, if a college-wide program)
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3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Equipment Fee

Full-time students in the Public Affairs Program pay a \$40 equipment fee each semester that they are enrolled. Part-time students pay \$20 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree in Social Work from an accredited institution. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
 - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
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- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines

Social Work	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
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Contact Info

Graduate Program

Tracy Wharton PhD, MEd, MSc, MSW, LCSW

Associate Professor

Tracy.Wharton@ucf.edu

Telephone: 407-823-2819

HSI Room: 247

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Security Studies PhD

College: Sciences	Degree: PhD
Department: School of Politics, Security and International Affairs	Option: Dissertation
Program Websites: https://sciences.ucf.edu/politics/	
Graduate Program Handbook	

Program Description

The Security Studies doctoral program is designed to produce specialists capable of analyzing and communicating security issues to policy makers, the general public, the government, and academia.

It is expected that the majority of graduates will work in military and other governmental organizations, international corporations, and agencies that deal with security. Others will seek employment in research and teaching in institutions of higher education.

Curriculum

The PhD degree consists of 59 credit hours beyond the master's degree. A master's degree is required for admission to the program with at least 30 credit hours of master's level work (including both coursework and thesis hours). The 59 credit hours consist of 17 credit hours of required courses, 15 credit hours of restricted electives, 9 hours of unrestricted electives (including courses offered in other departments, research, independent study, and internship), and a minimum of 18 credit hours of dissertation work.

Total Credit Hours Required: 59 Credit Hours Minimum beyond the Master's Degree

Required Courses—17 Credit Hours

Core Courses—15 Credit Hours

- INR 7139 - Issues in Domestic Security **3 Credit Hours**
- INR 7332 - Scientific Study of Security **3 Credit Hours**
- INR 7337 - Issues in International Security **3 Credit Hours**
- POS 7745 - Advanced Quantitative Methods in Political Research **3 Credit Hours**
- POS 7707 - Advanced Qualitative Methods in Political Research **3 Credit Hours**

Professional Development Courses—2 Credit Hours

- POS 7930 - Professional Development: Academic Careers in Security Studies **1 Credit Hours**
- POS 7267 - Professional Development: The Practice of Security Studies **1 Credit Hours**

Elective Courses—24 Credit Hours

Restricted Electives—15 Credit Hours

All students in the doctoral program must complete a minimum of 15 hours of course work in approved restricted elective graduate seminars. The choice of specific courses will be based on the research interests of students and made in conjunction with their faculty advisor. In this way, students achieve two distinct but related goals: a broad competence in the variety of methodological, theoretical, and substantive approaches to security studies and advanced proficiency in the areas that are most germane to their research interests. Approved restricted electives include:

- CPO 6038 - Political Development **3 Credit Hours**
- CPO 6058 - Revolution and Political Violence **3 Credit Hours**
- CPO 6091 - Seminar in Comparative Politics **3 Credit Hours**
- CPO 6206 - Comparative Politics of Africa **3 Credit Hours**
- CPO 6307 - Issues in Latin American Politics **3 Credit Hours**
- CPO 6407 - Comparative Politics of the Middle East **3 Credit Hours**
- CPO 6729 - Global Security in the Age of Migration **3 Credit Hours**
- CPO 6776 - Comparative Rising Powers **3 Credit Hours**
- INR 6039 - International Political Economy **3 Credit Hours**
- INR 6062 - Peace Studies **3 Credit Hours**
- INR 6065 - Seminar on War **3 Credit Hours**
- INR 6067 - Human Rights and Security **3 Credit Hours**
- INR 6068 - Politics of Civil Wars **3 Credit Hours**
- INR 6136 - Seminar in American Security Policy **3 Credit Hours**
- INR 6137 - Terrorism and Politics **3 Credit Hours**
- INR 6108 - Seminar in American Foreign Policy **3 Credit Hours**
- INR 6228 - International Politics of the Caspian Sea Region **3 Credit Hours**
- INR 6254 - International Relations of Africa **3 Credit Hours**
- INR 6275 - International Politics of the Middle East **3 Credit Hours**
- INR 6339 - Strategic Warning Analysis **3 Credit Hours**
- INR 6346 - Politics of International Terrorism **3 Credit Hours**
- INR 6356 - Environmental Security **3 Credit Hours**
- INR 6365 - Seminar on Intelligence **3 Credit Hours**
- INR 6366 - The Intelligence Community **3 Credit Hours**

- INR 6507 - International Organization **3 Credit Hours**
- INR 6726 - Political Behavior in International Conflict **3 Credit Hours**
- POS 6207 - Political Behavior **3 Credit Hours**
- POS 6415 - The American Presidency **3 Credit Hours**
- POS 6427 - Congress and the Legislative Process **3 Credit Hours**
- POS 6686 - National Security Law **3 Credit Hours**
- POS 6729 - Political Network Analysis **3 Credit Hours**
- POS 6743 - Geographic Tools for Political Science Research **3 Credit Hours**
- POS 6747 - Advanced Topics in Quantitative Political Analysis **3 Credit Hours**
- POS 6757 - Survey Design for Political Science Research **3 Credit Hours**
- POS 6938 - Special Topics/Political Analysis **3 Credit Hours**

Unrestricted Electives—9 Credit Hours

The unrestricted electives provide students with an opportunity to further expand their doctoral training beyond the program's core courses and the restricted electives. Unrestricted electives may include regularly scheduled graduate courses in political science, graduate-level courses in programs outside the department, independent study courses, doctoral research courses with a highly focused student/faculty research component, and internships that enable students to gain valuable experience in a non-academic setting. Unrestricted electives may be taken at any point in the student's program of study; however, no more than a total of twelve hours of graduate course work can be from outside of the department, dissertation research, independent study, or internship combined; in addition, no more than a total of six hours can be from either independent study or internship. Students with suitable academic backgrounds may work in areas such as cyber security or science and technology taking courses in relevant departments. A student's faculty advisor and the department's Graduate Program Director must approve all graduate courses taken outside of the department as well as any internships.

Modern Language or Methods Requirement

Prior to enrollment in dissertation hours, students are required to demonstrate proficiency in one modern language (other than English) or an additional methodological course dependent on the student's intended research area. The language requirement is two years (four semesters) of a single college-level modern language, which should normally be in an area relevant to the student's research. Students may meet the requirement by providing evidence of four semesters of enrollment or by passing a university-administered equivalent proficiency examination. The methods requirement is met by taking a methods course as part of the elective course requirements, with the approval of the Graduate Program Director.

Milestones and Examinations

Preliminary Advisory Committee Meeting

No earlier than April 1 and not later than June 1, of their first year in the program, students will assemble and meet with a Preliminary Advisory Committee of no fewer than three full-time Political Science faculty members, all of whom should have Graduate Faculty or Grad Faculty Scholar Status. Prior to this meeting, the student will present committee members with a written statement of their primary research interests. During this meeting faculty members provide feedback on the student's statement of research interests and will identify key literatures that the student will be expected to be familiar with as they pursue their dissertation. During this meeting faculty members provide feedback on the student's statement of research interests and will identify key literature that the student will be expected to be familiar with as they pursue their Dissertation Advisory Committee. Note that college approval for the committee is not required at this time and that students are able to change the composition of their committee at any time (subject to

program and college approval). Students will not be permitted to take Candidacy Exam C until they have conducted their Preliminary Advisory Committee Meeting.

Written Candidacy Exams

Each student will take the following exams:

1. An exam in qualitative methods, addressing the material taught in INR 7707.
2. An exam in quantitative methods, addressing the material taught in INR 7745.
3. An exam addressing the contemporary literature in security studies.

Students must pass each part of each exam prior to enrollment in dissertation hours. If they fail any part(s) of any exam, they will have a second opportunity to take that part(s). If they fail the exam a second time, the student will be dismissed from the program.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all coursework, except for dissertation hours
- Successful completion of all written candidacy exams
- Formation of a dissertation advisory committee
- Submittal of an approved program of study

Dissertation—18 Credit Hours Minimum

The dissertation is the culmination of the coursework that comprises this research-based degree. It must make a significant theoretical, historical, intellectual, practical, creative, or research contribution to the student's area within the discipline. The dissertation will be completed through a minimum of 18 hours of dissertation credit, which students will use to accomplish original research. Students must maintain enrollment in dissertation hours until the degree is awarded. The dissertation must conform to standard disciplinary, institutional, and departmental practices. Consistent with College of Graduate Studies Policies, a dissertation can only be approved after the successful completion of a Dissertation Defense.

- POS 7980 - Dissertation Research **18 Credit Hours**

The Dissertation Advisory Committee

It is the responsibility of the student to secure the agreement of four qualified members to serve on their dissertation committee. Committee members are qualified if they are approved members of the Graduate Faculty of Graduate Faculty Scholars. At least three members must be Graduate Faculty, and the Committee Chair must be an approved Graduate Faculty member. One member of the committee must be external to the political science department (i.e., from another UCF department or external to the university). Graduate Faculty members must form the majority of any given committee. A dissertation committee must be formed prior to enrollment into dissertation hours. Students are able to alter the composition of their committee at their discretion, but revised committees must comply with all of these regulations and be approved by the program and the College of Graduate Studies.

The Dissertation Proposal

After students have passed their candidacy exams, but before the end of the first semester that they are enrolled in dissertation hours, they must successfully complete a dissertation proposal. A successful dissertation proposal explains the subject under investigation, correctly places it within the existing scholarly literature, and present the planned approach for writing the dissertation. Dissertation proposals are only approved after they are presented to the dissertation advisory committee in a Dissertation Proposal Hearing. During the Dissertation Proposal Hearing, students must demonstrate a thorough understanding of their field of inquiry and convince committee members that their dissertation proposal is feasible. If the dissertation advisory committee is unsatisfied with the proposal or the student's preparation for undertaking it, they may, at their discretion, insist on revisions to the proposal and/or a rehearing (s) prior to approving the dissertation proposal.

Equipment Fee

Full-time students in the Security Studies PhD pay \$39 per semester for equipment each semester that they are enrolled. Part-time students pay \$19.50 per semester.

Independent Learning

As with all graduate programs, independent learning is an important component in the Security Studies doctoral program. Students will demonstrate independent learning through research seminars, directed research and the dissertation.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- An earned master's degree or it's equivalent in Political Science, International Politics or International Relations, or related discipline. The Graduate Program Director will evaluate the suitability and applicability of MA degrees in other disciplines for admission purposes.
- A competitive score on each of the quantitative and verbal sections of the Graduate Record Examination (GRE) taken within three years prior to admission to the program.
- Three letters of reference that evaluate the applicant's academic performance and their suitability and potential for undertaking doctoral study, at least one of which must be written by a faculty member at the institution where the master's degree was earned, preferably the thesis adviser for those applicants who wrote a master's thesis.
- A personal statement of 500 words identifying areas of research interest in political science, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and future career goals.
- A writing sample of the applicant's work that is at least 2500 words long and demonstrates the ability to complete graduate-level research.
- Résumé.
- For international applicants whose first language is not English, a score of 90 or better on the TOEFL internet-based test (iBT); or a score of 232 or better on the TOEFL computer-based test; or a score of 575 or better on the TOEFL paper-based test; or a score of 7.0 or better on the IELTS.

Applicants should plan to take the appropriate test no later than December to ensure consideration of their applications by the January 15 deadline.

Applicants' records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended. Consult the graduate program director whenever questions arise.

A department admissions committee that reviews the applicants' credentials will conduct interviews with the top candidates (either in-person on campus or by phone or Skype). Final selection is based on both submitted credentials and interview.

Meeting minimum UCF admissions criteria does not guarantee program admission. Final admission is also based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, applicant's potential for completing the degree, and the interview.

Application Deadlines

Security Studies PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Thomas Dolan PhD
Associate Professor
thomas.dolan@ucf.edu

Telephone: 407-823-2608
HPH 302D

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Sociology PhD

College: Sciences	Degree: PhD
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Department: Sociology	Option: Dissertation
Program Websites: https://sciences.ucf.edu/sociology/	
Graduate Program Handbook	

Program Description

The Sociology PhD program provides training in the skills necessary to secure research careers in both academic and non-academic professions and emphasizes applied research in community-based settings.

The Sociology PhD program is organized around a curriculum combining grounding in the acquisition of theoretical and methodological skills with advanced study in one of the department's four areas of concentration: Crime and Deviance; Domestic Violence; Health, Families, and Communities; and Social Inequalities.

The program is one of only a few in the United States focusing on applied research. Students are trained in specific applied research skills such as data analysis, qualitative methods, quantitative methods, mixed methods, Geographic Information Systems (GIS), and/or program evaluation. Combined with course work in one of the four substantive areas, graduates will be trained for employment in the following settings: the academy, industry, business, government, and nonprofit agencies. The program provides training in the skills necessary to secure advanced careers in academic and non-academic professions and emphasizes applied research in community-based settings.

Curriculum

The Sociology PhD requires a minimum of 60 credit hours beyond the master's degree, with 15 credit hours coming from required core courses, three credit hours from a restricted elective in theory, and three credit hours from a restricted elective in research methods and data analysis. Students select a minimum of 12 elective credit hours in one of the department's four areas of concentration: Crime and Deviance; Domestic Violence; Health, Families and Communities; or Social Inequalities.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Students must earn a grade of "B" (3.0) or better in the program's required courses. Courses may be retaken to achieve a better grade; however, students must maintain a minimum GPA of 3.0 in their program of study.

Required Courses: 15 Credit Hours

Core: 9 Credit Hours

- SYA 7019 - Advanced Sociological Theory **3 Credit Hours**
- SYA 7309 - Advanced Sociological Research Methods **3 Credit Hours**
- SYA 7407 - Advanced Data Analysis **3 Credit Hours**

Theory: 3 Credit Hours

Select one course from the list below.

- SYA 6933 - Topics in Sociological Theory **3 Credit Hours**
- SYA 6128 - Theoretical Criminology **3 Credit Hours**

Research Methods: 3 Credit Hours

Select one course from the list below.

- SYA 6315 - Qualitative Research Methods **3 Credit Hours**
- SYA 6425 - Design and Conduct of Social Surveys **3 Credit Hours**
- SYA 7457 - Topics in Data Analysis **3 Credit Hours**
- SYA 6356 - Geographic Information Systems in Society **3 Credit Hours**
- SYA 6452 - GIS Applications **3 Credit Hours**

Elective Courses: 24 Credit Hours

Major Area of Concentration Electives: 12 Credit Hours Minimum

Students will select a minimum of 12 credit hours of unrestricted electives in one of the department's four areas of concentration.

- Crime and Deviance
- Domestic Violence
- Health, Families and Communities
- Social Inequalities

Unrestricted Electives: 18 Credit Hours Minimum

The unrestricted electives provide students with an opportunity to expand their doctoral training beyond the program's core courses and the electives in the student's major area of concentration. Unrestricted electives may include formal course work, graduate-level courses in programs outside the Sociology Department, independent study courses with a highly focused student/faculty research component, directed research, and doctoral research. At least 9 hours from concentration electives and unrestricted electives must consist of formal course work, exclusive of independent study. Unrestricted electives may be taken at any point in the student's program of study. Courses from other departments must be approved by the student's advisor and the Graduate Director.

Dissertation: 15 Credit Hours Minimum

- SYA 7980 - Dissertation Research **15 Credit Hours**

Examinations

Content

Section 1: Theoretical Foundations of Sociology

All students will answer two of three questions. All students who take the exam in the same area of concentration in a given semester will receive the same three questions. One of the questions will require students to trace the connections

between classical and contemporary sociological theories and a second question will require students to discuss the three central theoretical paradigms in sociology.

Section 2: Methods and Statistics

All students will answer two of three questions. All students who take the exam in the same area of concentration in a given semester will receive the same three questions. One of the questions will require students to interpret statistical results in tabular form.

Section 3: Major Area of Concentration

All students will answer three of four questions covering general information within the area of concentration. All students who take the exam in the same area of concentration in a given semester will receive the same four questions.

Committee

The Qualifying Exams will be graded by a committee of three faculty members who teach or do research in the area of concentration. Prior to the final faculty meeting of each spring semester, four separate qualifying exam committees will be formed by faculty choosing to become a member of one or more areas of concentration. Each qualifying exam committee will create the exam to be used for the next academic year and select the three members who will be the Grading Committee.

Administration

The Qualifying Exam will be offered to students twice during the academic year (once during the fall semester and once during the spring semester). Students must notify the Graduate Director and Graduate Admissions Coordinator by June 1 to take the exam in the fall semester or by October 1 to take the exam in the spring semester. They will select a major area of concentration. The exam will be distributed by the Graduate Admissions Coordinator via Webcourses. The exams typically are held the week prior to the beginning of the fall semester and the week prior to the start of the spring semester. Students will have 7 days to complete all sections of the exam and submit the exam via Webcourse. The Graduate Director will then distribute the exam to the appropriate grading committee.

Students are expected to work on the Qualifying Exam alone, and all exams will be submitted to turnitin.com. Questions from students that come up during the exam should be directed to the Graduate Director who will solicit advice from the chair of the grading committee in the student's area.

Each grading committee will have three weeks to notify the Graduate Director of the student's grade on the exam (High Pass, Pass, Conditional Pass, or Fail). A grade of conditional pass on an exam will require the student to revise and resubmit one or more questions identified as insufficient by the Grading Committee. The student will have one week to complete each question that must be rewritten. If a student fails the exam, he/she must retake the exam the next semester it is offered. If the exam is failed a second time, the student will be dismissed from the Ph.D. Program in Sociology.

Accommodations for students with a documented disability will be made with advanced notice in consultation with the student and the appropriate campus office.

Candidacy Examination

The dissertation proposal defense constitutes the program's candidacy examination, and students who successfully pass their proposal defense along with other requirements shall be admitted to candidacy. The proposal will encompass an overview of the dissertation topic that includes an in-depth review of relevant literature, a precise statement of the research question, and specific research design (planned methodology and analysis). The student's Dissertation Advisory Committee will supervise the preparation of the dissertation proposal and the defense hearing.

Admission to Candidacy

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all required course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Dissertation

A dissertation is required for completion of the PhD, along with an oral defense of the dissertation proposal and completed dissertation through a minimum of 15 credit hours, which students use to accomplish original research on a topic approved by their advisor and three additional committee members. One committee member must be from a relevant field outside the Department of Sociology. The dissertation must conform to standard disciplinary, institutional, and departmental practices. Students may not enroll for dissertation credit until they have completed all examinations in their program of study.

Equipment Fee

Full-time students in the Sociology PhD program pay a \$39 equipment fee each semester that they are enrolled. Part-time students pay \$19.50 per semester.

Independent Learning

As with all graduate programs, independent learning is an important component in the Sociology doctoral program. Students will demonstrate independent learning through research seminars, directed research and the dissertation.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Master's degree in a related field from an accredited institution (*Note: Official, preliminary transcript reflecting Master's degree in-progress may be submitted prior to first semester of enrollment. Final, official transcripts are required post admission to document completion of master's degree.*).
- Official, competitive GRE scores taken within the last five years.
- Three letters of recommendation, (where possible) at least two from academic sources regarding the applicant's potential for success in the program.
- A 250-500 word personal statement identifying the area of research interest as it relates to the thematic areas of UCF Sociology, faculty with whom they would like to work with and a description of the applicant's academic and professional experiences and goals.

- Résumé or Curriculum Vitae.
- A writing sample, at least 2,500 words demonstrating the ability to complete advanced graduate work.

Applicant records will be reviewed on an individual basis to assess their potential for success in the program. Supplemental course work may be recommended. Consult the graduate program director whenever questions arise.

Meeting minimum UCF admissions criteria does not guarantee program admission. Final admission is also based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, and applicant's potential for completing the degree.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only.

Application Deadlines

Sociology PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Timothy L. Hawthorne, PhD

Graduate Director & Associate Professor of Geographic Information Systems
Department of Sociology

Timothy.Hawthorne@ucf.edu
Telephone: 407-823-4115
HPH, RM 403Q

Bridgett J. Burk

UCF Sociology Graduate Admissions Coordinator
Department of Sociology
socadmissions@ucf.edu
Telephone: 407-823-4115
HPH, RM 403J

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
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Graduate Admissions

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finaid@ucf.edu
<http://finaid.ucf.edu>

Strategic Communication PhD

College: Sciences	Degree: PhD
Department: Nicholson School of Communication and Media	Option: Dissertation
Program Website: https://communication.ucf.edu/degree/strategic-communication-ph-d/	
Graduate Program Handbook	

Program Description

The PhD in Strategic Communication offers advanced instruction in health communication, instructional emergency risk communication, and crisis communication; it prepares students with the necessary knowledge and skills to pursue a successful, advanced career in communication and related fields in both academic and applied settings.

Strategic communication, one of the fastest-growing areas situated within the broader field of communication, is an innovative and unique subfield. It is distinct from other communication subfields in that it is intentionally goal-driven communication wherein communication scholars work in partnership with professionals in the public and private sectors to solve real-world problems.

The Nicholson School of Communication and Media's communication and digital media programs joined the Florida Interactive Entertainment Academy (FIEA) at UCF Downtown, a 21st-century campus with access to arts, culture, nightlife, and business.

Curriculum

The Strategic Communication PhD requires a minimum of 60 credit hours beyond the master's degree. The zero-hour Doctoral Colloquium will be required in the fall semesters of the first and second year. This course will introduce students to professional standards and practices associated with doctoral-level training in the field of Strategic Communication.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Students must earn a grade of "B" (3.0) or better in the program's required courses. Courses may be retaken one time to achieve a better grade; however, students must maintain a minimum GPA of 3.0 in their plan of study.

Required Courses—24 Credit Hours

Colloquium—0 Credit Hours

- COM 7920 - Doctoral Colloquium **0 Credit Hours** (Repeatable Once)

Core Requirements—9 Credit Hours

- COM 7464 - Theory Building for Strategic Communication **3 Credit Hours**
- COM 7529 - Strategic Communication **3 Credit Hours**
- COM 7821 - Instructional Communication in Strategic Contexts **3 Credit Hours**

Research Requirements—12 Credit Hours

- COM 6303 - Qualitative Research Methods in Communication **3 Credit Hours**
- COM 6304 - Quantitative Research Methods in Communication **3 Credit Hours**
- COM 7325 - Seminar in Research Methods **3 Credit Hours**
- SPC 7685 - Rhetorical Criticism of Strategic Communication **3 Credit Hours**

Community Engagement Requirement—3 Credit Hours

- COM 6918 Directed Research **3 Credit Hours**
- COM 6946 Internship **3 Credit Hours**
- COM 7528 - Communication and Community Engagement **VAR Credit Hours**

Restricted Elective Courses—6 Credit Hours

Choose one area of concentration.

Concentration in Risk and Crisis Communication

- COM 7236 - Seminar in Risk and Crisis Communication **3 Credit Hours**
- COM 7815 - Risk Communication **3 Credit Hours**

Or

Concentration in Health Communication

- COM 7025 - Health Communication **3 Credit Hours**
- COM 7227 - Seminar in Health Communication **3 Credit Hours**

Unrestricted Electives—15 Credit Hours

Upon consultation with, and approval of the student's advisor, a student may complete up to 6 hours of elective courses from outside the NSCM (e.g., Emergency Management, Public Affairs). Note: Non-NSCM courses might not be offered on the Downtown campus and will require students to attend the course at the UCF Main campus.

Choose from Nicholson School of Communication and Media graduate courses below.

- COM 6535 - Communication Campaigns **3 Credit Hours**
- COM 6046 - Interpersonal Communication **3 Credit Hours**
- COM 6145 - Organizational Communication **3 Credit Hours**
- COM 6401 - Communication Theory **3 Credit Hours**
- COM 6425 - Symbolism in Terrorism **3 Credit Hours**
- COM 6463 - Studies in Intercultural Communication **3 Credit Hours**
- COM 6467 - Studies in Persuasion **3 Credit Hours**
 - COM 6918 Directed Research **3 Credit Hours**
- COM 6946 Internship **1-3 Credit Hours**
- COM 7745 - Current Issues in Communication **3 Credit Hours**
- COM 7815 - Risk Communication **3 Credit Hours**
- COM 7025 - Health Communication **3 Credit Hours**

- MMC 6567 - New Media **3 Credit Hours**
- MMC 6600 - Media Effects and Audience Analysis **3 Credit Hours**
- PUR 6005 - Theories of Public Relations **3 Credit Hours**
- PUR 6403 - Crisis Public Relations **3 Credit Hours**
- COM 7528 - Communication and Community Engagement **VAR Credit Hours**

Dissertation—15 Credit Hours

- COM 7980 Dissertation Research **15 credit hours**

Independent Learning

As with all graduate programs, independent learning is an important component of the Strategic Communication doctoral program. Students will demonstrate independent learning through research seminars, directed research and the dissertation.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants should adhere to the application requirements outlined below. An application will not be reviewed for admission until it is verified as complete by the UCF College of Graduate Studies.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- An earned master's degree or its equivalent in Communication or a related field. The Director of Graduate Studies will evaluate the suitability and applicability of M.A. or M.S. degrees in other related disciplines for admission purposes. Applicants must have a minimum cumulative GPA of 3.0 for all graduate work and must also have a cumulative 3.0 GPA in their undergraduate degree.
- A competitive score on each of the quantitative and verbal sections of the Graduate Record Examination (GRE) taken within five years prior to admission to the program.
- Three letters of reference that evaluate the applicant's academic performance and their suitability and potential for undertaking doctoral study, at least one of which must be written by a faculty member at the institution where the master's degree was earned, preferably the thesis advisor or Graduate Program Director.
- A personal statement of 500 words identifying areas of research interest in strategic communication, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and future career goals.
- Video Essay
- A writing sample of the applicant's work that is at least 2500 words long and demonstrates the ability to complete graduate-level research.
- Résumé.

International applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) unless they hold a degree

from a U.S. accredited institution. The TOEFL is strongly preferred. The minimum TOEFL score for full admissions consideration is 90 on the Internet-based test (IBT) and must take the speaking portion of the TOEFL and score a 26 or higher, 232 on the computer-based test, or 575 on the paper-based test. The minimum IELTS score is 7.0. Applicants should plan to take the appropriate test no later than December to ensure consideration of their applications by the January 15 deadline. Applicants' records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended. Consult the graduate program director whenever questions arise. Meeting minimum UCF admissions criteria does not guarantee program admission. Final admission is also based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, applicant's potential for completing the degree, and the interview.

Selection committee: Applicants for admission into the doctoral program will be reviewed and recommended for acceptance by the NSCM Doctoral Committee. The Doctoral Committee will be chaired by the Director of Graduate Studies and comprised of five additional representatives from the graduate faculty in the Nicholson School of Communication and Media.

Application Deadlines

Strategic Communication PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Timothy Sellnow, PhD

Professor and Director of Graduate Studies
timothy.sellnow@ucf.edu
Telephone: 407-823-3143
CMB 203

NSCM Graduate Student Services Coordinator

nicholsongrad@ucf.edu
Telephone: 407-823-5595
NSCM 238/CMB 203

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

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UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Texts and Technology PhD

College: Arts and Humanities	Degree: PhD
Department: Arts and Humanities	Option: Dissertation
Program Websites: http://tandt.cah.ucf.edu/	
Graduate Program Handbook	

Program Description

Dedicated to inventing the future of the humanities, Texts and Technology is an interdisciplinary doctoral program that integrates fields such as writing, rhetoric, philosophy, technical communication, and public history with digital methods and practices in coding, game design, and archiving. The program supports engagement with digital practices in dialectical, rhetorical, procedural, and critical-cultural fields. The T&T program considers literacy in a broad sense, from traditional notions of writing and communication to more contemporary notions of computational and procedural literacy (e.g., using programming and new media installations as inventive methods for production, critique, and analysis).

Since 2001, UCF's Texts and Technology doctoral program has excelled in supporting its students with an internationally recognized faculty and by offering a rigorous curriculum in a friendly environment. Students bring knowledge of a specific discipline and deepen their understanding of the subject through a digital lens. In the T&T program, students adapt, develop, assess, and invent information practices in relation to emergent information technologies in and beyond the humanities.

Curriculum

The Texts and Technology (T&T) PhD requires a minimum of 42 credit hours of coursework beyond the master's degree, including a minimum of 3 hours of doctoral research and 15 hours of dissertation. Eighteen credit hours are required in seven core courses. These core courses provide an interdisciplinary framework for all students. The remaining credit hours consist of additional courses in an Area of Specialization, interdisciplinary electives, and research hours.

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Master's Degree

Transfer and Waived Credits

Upon approval by the T&T Program Director, some graduate credits may be waived or transferred. Please refer to the UCF Doctoral Program Policies section for specific guidelines and eligibility.

Required Courses: 18 Credit Hours

Core: 15 Credit Hours

- ENG 6800 - Introduction to Texts and Technology **3 Credit Hours**
- ENG 6801 - Texts and Technology in History **3 Credit Hours**
- ENG 6810 - Theories of Texts and Technology **3 Credit Hours**
- ENG 6826 - Professionalization in Texts and Technology **0 Credit Hours**
- DIG 6836 - Design and Development for Texts and Technology **3 Credit Hours**
- ENG 6005 - Dissertation Research Design in Texts and Technology **3 Credit Hours**

Research Methods: 3 Credit Hours

Select one course from the list below, or an alternate 6000-level methods course subject to approval by the instructor and the Texts and Technology Program Director.

- ENG 6812 - Research Methods for Texts and Technology **3 Credit Hours**
- DIG 6825 - Research Methods for Interactive Media **3 Credit Hours**
- ENC 6720 - Research Methods in Rhetoric and Composition **3 Credit Hours**
- HIS 6159 - Historiography **3 Credit Hours**

Elective Courses: 21 Credit Hours

Area of Specialization: 12 Credit Hours

Students select an Area of Specialization no later than after having completed 18 credit hours in the program. Students are required to select 12 credit hours from an Area of Specialization as noted below, or other graduate courses in the discipline subject to approval by the instructor and the Texts and Technology Program Director.

Suggested courses in various Areas of Specialization are listed below. These course groupings are only guides, are not exhaustive, and are meant to assist with advising and course selection in order to meet the individual student's educational goals and objectives. The lists are not intended to restrict elective choices among focus areas as we strongly encourage Texts and Technology students to maintain an interdisciplinary approach to their doctoral education.

If a student identifies another UCF graduate course that may be of value to their Texts and Technology research area, but it is not already identified in a list below, that student may request approval from the T&T Program Director for the course to be used as an elective in the Graduate Plan of Study. All such requests must be made in advance of enrolling in the course.

Digital Humanities

- ENG 6812 - Research Methods for Texts and Technology (3 credit hours) is the recommended Methods course.

The Digital Humanities Area of Specialization prepares students for careers in research, teaching, government, and industry and combines the study and application of digital technologies with the study of human society and culture. Students develop an understanding of social and cultural shifts in relation to information technologies and invent new practices for conducting research, teaching, and writing (broadly defined) in digital media.

- ARH 5897 - Advanced Seminar in Art History **3 Credit Hours**
- DIG 5137 - Information Architecture **3 Credit Hours**
- DIG 5508 - Programming for Digital Media **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**

- DIG 6647 - History and Theory of Dynamic Media **3 Credit Hours**
- ENC 6425 - Hypertext Theory and Design **3 Credit Hours**
- ENC 6426 - Visual Texts and Technology **3 Credit Hours**
- ENC 6428 - Digital Literacies **3 Credit Hours**
- ENG 6074 - Historical Movements in Literary, Cultural, and Textual Studies **3 Credit Hours**
- ENG 6078 - Contemporary Movements in Literary, Cultural, and Textual Theory **3 Credit Hours**
- ENG 6624 - Social Media Research for Humanities **3 Credit Hours**
- ENG 6806 - Digital Editing and Databases **3 Credit Hours**
- ENG 6808 - Narrative Information Visualization **3 Credit Hours**
- ENG 6811 - Cultural Contexts in Texts and Technology **3 Credit Hours**
- ENG 6813 - Interdisciplinary Teaching **3 Credit Hours**
- ENG 6814 - Gender in Texts and Technology **3 Credit Hours**
- ENG 6819 - Critical Making for Humanist Scholarship **3 Credit Hours**
- HIS 6167 - Spatial History **3 Credit Hours**
- LIT 6216 - Issues in Literary Study **3 Credit Hours**
- LIT 6936 - Studies in Literary, Cultural, and Textual Theory **3 Credit Hours**
- PHI 5665 - Knowledge, Responsibility, and Society **3 Credit Hours**
- PHI 6679 - Digital Ethics **3 Credit Hours**
- PHM 5035 - Environmental Philosophy **3 Credit Hours**
- THE 5307 - Contemporary Theatre Practice **3 Credit Hours**
- THE 5545 - Theatre for Social Change **3 Credit Hours**
- TPA 6186 - Immersive Experience Studio **3 Credit Hours**
- TPA 6188 - Visualizing Themed Environments **3 Credit Hours**
- WST 5347 - Research in Women and Gender Studies **3 Credit Hours**
- WST 5601 - Theories in Gender Studies **3 Credit Hours**

Digital Media

• DIG 6825 - Research Methods for Interactive Media (3 credit hours) is the recommended Methods course. The Digital Media Area of Specialization emphasizes the conceptual, theoretical, design, and technical skills needed to engage the changing platforms on which we work, teach, and live. This specialization prepares students for careers in user experience design, digital storytelling, and interactive communication. Students develop an understanding of critical making, code and software studies and development, user-centered design, and the critique and design of games and interactive media.

- DIG 5137 - Information Architecture **3 Credit Hours**
- DIG 5487 - Media Aesthetics **3 Credit Hours**
- DIG 5508 - Programming for Digital Media **3 Credit Hours**
- DIG 5831 - Computational Media **3 Credit Hours**
- DIG 6136 - Design for Interactive Media **3 Credit Hours**
- DIG 6432 - Transmedia Story Creation **3 Credit Hours**
- DIG 6436 - Ethnographic Storytelling and New Media **3 Credit Hours**
- DIG 6546 - Previsualization and Concept Development **3 Credit Hours**
- DIG 6551 - Theory and Practice of Interactive Storytelling **3 Credit Hours**
- DIG 6605 - Physical Computing **3 Credit Hours**
- DIG 6647 - History and Theory of Dynamic Media **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**
- DIG 6817 - Contemporary Topics in Interactive Media **3 Credit Hours**

- ENC 6225 - User-Centered Design for Technical Communication **3 Credit Hours**
- ENC 6296 - Interactive Design in Technical Communication **3 Credit Hours**
- ENC 6421 - Digital Rhetorics **3 Credit Hours**
- ENC 6425 - Hypertext Theory and Design **3 Credit Hours**
- ENG 6624 - Social Media Research for Humanities **3 Credit Hours**
- ENG 6806 - Digital Editing and Databases **3 Credit Hours**
- ENG 6808 - Narrative Information Visualization **3 Credit Hours**
- ENG 6813 - Interdisciplinary Teaching **3 Credit Hours**
- ENG 6819 - Critical Making for Humanist Scholarship **3 Credit Hours**
- HIS 6167 - Spatial History **3 Credit Hours**
- PHI 6679 - Digital Ethics **3 Credit Hours**

Editing, Publishing, and Interdisciplinary Curating (EPIC)

- ENG 6812 Research Methods for Texts and Technology or DIG 6825 Research Methods for Interactive Media, or ENC 6720 Research Methods in Rhetoric and Composition, or HIS 6159 Historiography can be taken as the required Methods course.

The Editing, Publishing, and Interdisciplinary Curating Area of Specialization prepares students for careers in editing, publishing, and curating, including consideration of current and developing technologies of print and online publication; digital archiving and collections; digital world-building and publication; curation of film, visual art, gaming, and other media; scholarly projects and publications; and the impact of technologies on the way we read, interact with media, and think.

- ARH 5897 - Advanced Seminar in Art History **3 Credit Hours**
- CRW 6025 - Advanced Graduate Writing Workshop **3 Credit Hours**
- CRW 6721 - Literary Journal Editing **3 Credit Hours**
- CRW 6976 - Scholarship and Publication Models **3 Credit Hours**
- DIG 6136 - Design for Interactive Media **3 Credit Hours**
- DIG 5487 - Media Aesthetics **3 Credit Hours**
- DIG 6436 - Ethnographic Storytelling and New Media **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**
- ENC 6216 - Editing Professional Writing **3 Credit Hours**
- ENC 6217 - Technical Editing **3 Credit Hours**
- ENC 6257 - Visual Technical Communication **3 Credit Hours**
- ENC 6297 - Production and Publication Methods **3 Credit Hours**
- ENC 6426 - Visual Texts and Technology **3 Credit Hours**
- ENC 6428 - Digital Literacies **3 Credit Hours**
- ENG 6806 - Digital Editing and Databases **3 Credit Hours**
- HIS 5083 - Cultural Heritage Management **3 Credit Hours**
- HIS 5088 - Readings in Curation and Public History **3 Credit Hours**
- HIS 6094 - Seminar in Curation and New Media **3 Credit Hours**
- LIN 5675 - English Grammar and Usage **3 Credit Hours**
- LIT 6216 - Issues in Literary Study **3 Credit Hours**
- PHI 6679 - Digital Ethics **3 Credit Hours**

Public History

- If the student does not hold a master's degree in History, HIS 6159 - Historiography (3 credit hours) is the recommended Methods course. If the student holds a master's degree in history, the recommended Methods course is ENG 6812 - Research Methods for Texts and Technology (3 credit hours).

The Public History Area of Specialization engages students in collaborations with various communities in the gathering of historic materials, preservation, archiving, curating, oral history, and related fields while preparing students for careers in academia, museums, governments, and non-profit agencies. It pays special attention to digital platforms and tools and their uses for involving public audiences in historical analysis and interpretation.

- AMH 5636 - Colloquium in US Environmental History **3 Credit Hours**
- AMH 5378 - History of Technology **3 Credit Hours**
- AMH 6346 - Seminar in the History of American Automobility **3 Credit Hours**
- AMH 6429 - Seminar in Community and Local History **3 Credit Hours**
- ENG 6808 - Narrative Information Visualization **3 Credit Hours**
- HIS 5067 - Introduction to Public History **3 Credit Hours**
- HIS 5083 - Cultural Heritage Management **3 Credit Hours**
- HIS 5088 - Readings in Curation and Public History **3 Credit Hours**
- HIS 5925 - History in the Digital Age **3 Credit Hours**
- HIS 6094 - Seminar in Curation and New Media **3 Credit Hours**
- HIS 6096 - Seminar in Historic Preservation **3 Credit Hours**
- HIS 6165 - Digital Tools for Historians **3 Credit Hours**
- HIS 6167 - Spatial History **3 Credit Hours**
- HIS 6942 - Internship **3 Credit Hours**
- PHI 6679 - Digital Ethics **3 Credit Hours**

Rhetoric and Composition

- ENC 6720 - Research Methods in Rhetoric and Composition (3 credit hours) is the recommended Methods course.

The Rhetoric and Composition Area of Specialization trains students to communicate effectively, persuasively, and ethically across a range of civic, professional, and educational contexts and pays special attention to digital platforms and tools and their uses for involving public audiences.

- ENC 5337 - Rhetorical Theory **3 Credit Hours**
- ENC 5705 - Approaches to Teaching College Composition **3 Credit Hours**
- ENC 5920 - Colloquium in Rhetoric and Composition **3 Credit Hours**
- ENC 6245 - Teaching Professional Writing **3 Credit Hours**
- ENC 6332 - Gendered Rhetoric **3 Credit Hours**
- ENC 6333 - Contemporary Rhetoric and Composition Theory **3 Credit Hours**
- ENC 6335 - Rhetorical Traditions **3 Credit Hours**
- ENC 6338 - The Rhetorics of Public Debate **3 Credit Hours**
- ENC 6339 - Rhetorical Movements **3 Credit Hours**
- ENC 6428 - Digital Literacies **3 Credit Hours**
- ENC 6712 - Studies in Literacy and Writing **3 Credit Hours**
- ENC 6740 - Topics in Rhetoric and Composition **3 Credit Hours**
- ENC 6945 - Community Literacy Practicum **3 Credit Hours**
- ENG 6624 - Social Media Research for Humanities **3 Credit Hours**
- ENG 6808 - Narrative Information Visualization **3 Credit Hours**
- ENG 6811 - Cultural Contexts in Texts and Technology **3 Credit Hours**
- PHI 6679 - Digital Ethics **3 Credit Hours**

Scientific and Technical Communication

- ENG 6812 - Research Methods for Texts and Technology (3 credit hours) is the recommended Methods course.

The Scientific and Technical Communication Area of Specialization provides a foundation in rhetorical theory, communication theory, design theory, and other theories informing the discipline. Students develop practical projects in a variety of professional contexts such as scientific and medical communication and communicating for international audiences.

- ENC 6217 - Technical Editing **3 Credit Hours**
- ENC 6261 - Technical Writing, Theory and Practice **3 Credit Hours**
- ENC 6292 - Project Management for Technical Writers. **3 Credit Hours**
- ENC 6296 - Interactive Design in Technical Communication **3 Credit Hours**
- ENC 6297 - Production and Publication Methods **3 Credit Hours**
- ENC 6425 - Hypertext Theory and Design **3 Credit Hours**
- ENC 6421 - Digital Rhetorics **3 Credit Hours**
- ENC 6247 - Proposal Writing **3 Credit Hours**
- ENC 6257 - Visual Technical Communication **3 Credit Hours**
- ENC 6338 - The Rhetorics of Public Debate **3 Credit Hours**
- ENG 6624 - Social Media Research for Humanities **3 Credit Hours**
- ENG 6808 - Narrative Information Visualization **3 Credit Hours**
- LIN 5675 - English Grammar and Usage **3 Credit Hours**
- LIT 6435 - Rhetoric of Science **3 Credit Hours**
- PHI 6679 - Digital Ethics **3 Credit Hours**

Interdisciplinary Electives: 9 Credit Hours

Students select 9 credit hours of interdisciplinary electives from any Area of Specialization, or from other departments within the university, subject to approval by the instructor and the Texts and Technology Program Director. This requirement encourages students to find graduate-level coursework best suited to develop their research agendas and to prepare for their dissertations.

Dissertation: 18 Credit Hours

Candidacy Examination: 3 Credit Hours

- ENC 7919 Doctoral Research **3 credit hours**

Students are admitted to doctoral candidacy status upon completion of a written examination with three parts—one part based on a reading list reviewed biennially by the Texts and Technology faculty and the other two parts based on reading lists prepared by each student and approved by the examination committee. The candidacy examination for each student is written and evaluated by a committee of three UCF Texts and Technology graduate faculty members chosen by the student. Students must be registered for ENC 7919 during the semester in which they take their candidacy examination and they must find a Texts and Technology core faculty member to serve as the chair of their examination during the semester before enrolling in ENC 7919. Students cannot register for dissertation credit (ENC 7980) until the semester after they have successfully passed the candidacy examination. Students who fail the candidacy examination a second time cannot continue in the program.

Admission to Candidacy

The following are required in order to be admitted to candidacy and enroll in dissertation hours:

- Successful completion of all coursework, except for dissertation hours.
- Successful completion of the candidacy examination.
- Completion of College of Graduate Studies CITI and Academic Integrity Training
- An approved dissertation advisory committee is on file, consisting of approved graduate faculty and graduate faculty scholars.
- A current, approved program of study is on file.

Dissertation and Oral Defense: 15 Credit Hours

- ENC 7980 Doctoral Dissertation (15 credit hours)

Students choose their dissertation adviser and committee from among the faculty in the Texts and Technology PhD program and must have one member from outside the College of Arts and Humanities. Students choose the adviser after they have completed approximately 27 credit hours toward the degree or after the first year-and-a-half of coursework. All dissertation committee members, including outside readers, must hold a PhD or another relevant degree or, if serving as a UCF Graduate Scholar, the external member must have documented evidence of exceptional relevant experience and/or scholarly or creative productivity.

Students must write a dissertation on their research that will explain and defend a significant original contribution to the field of Texts and Technology. It may be of a theoretical, historical or pragmatic nature, but must meet conventional academic standards. Students are required to submit and defend a written dissertation proposal (the prospectus) during the first year in dissertation. The dissertation committee administers the candidate's oral defense of the dissertation, with passing determined by acceptance by a majority of the committee. The dissertation adviser, the dissertation committee and the dean of the college or designee must approve the final dissertation. Format approval is required from the Thesis and Dissertation Office and final approval of degree requirement completion by the College of Graduate Studies (Millican Hall 230)

Students will submit at least one substantial scholarly article to a national and/or international peer-reviewed journal or proceedings conference with the approval and assistance of the dissertation chair and the director of the doctoral program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One transcript from each college/university attended, demonstrating a competitive GPA in the student's major field of study.
- Applicants must hold an earned master's degree from a regionally accredited or recognized foreign institution prior to entering the Texts and Technology program. Fields with a technological and/or textual theory component, such as digital humanities, public history, technical communication, digital media, cultural studies, philosophy, rhetoric, or linguistics, are especially applicable. The total Texts and Technology doctoral program is a combination of an earned master's degree and the Ph.D. core, Area of Specialization, and interdisciplinary elective coursework, and dissertation hours. *Earned Master's Degree (minimum 30 credit hours) + 42 UCF Graduate Credit hours = 72 graduate credit hours.*
- Official, competitive GRE score (the test must have been taken within the last five years).
- Three letters of recommendation. These should be from faculty members, university administrators, or employers. The letters should be current to the application and should address the relevant skills of the

applicant, the aspirations of the candidate, and an assessment of the applicant's ability to perform graduate-level research. Letters that provide specific examples are more helpful than those that speak about the applicant's abilities in vague generalities. Confidential letters are preferred.

- Statement of Purpose:
 - The statement should explain the motivation behind the pursuit of an interdisciplinary doctoral degree in Texts and Technology and discuss future career goals.
 - The statement should discuss all relevant professional background and any previous research experience.
 - The statement should address why the interdisciplinary composition of Texts and Technology is appropriately aligned with the applicant's future research goals.
 - The applicant must clearly describe the particular area(s) of research interest and identify any UCF faculty members who share a similar research focus and with whom the applicant would like to work. Applicants are encouraged to visit the Texts and Technology website for additional information regarding the program and faculty (<http://www.tandt.cah.ucf.edu>).
 - The statement should be between 500 and 1,200 words.
- A substantial academic writing sample (between 10 and 25 double-spaced pages) and an optional digital portfolio illustrating the applicant's ability to engage in advanced academic work should be submitted as part of the application materials. Acceptable writing samples may include a chapter from a master's thesis, a conference paper, a term paper for a seminar, or other research projects that demonstrate the applicant's ability to pursue the type of research that could possibly lead to a completed dissertation. The optional digital portfolio may include examples of digital humanities or interactive media projects that are annotated appropriately to explain the applicant's contribution to the design and development process.
- Résumé or CV.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is competitive and is based on a comparative evaluation of each applicant's proficiencies, past performance, recommendations, as well as the match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Texts and Technology PhD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Feb 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

TandT@ucf.edu

Telephone: (407) 823-2126

Trevor Colbourn Hall (TCH) 236

Anastasia Salter PhD

Director, Associate Professor

anastasia@ucf.edu

Trevor Colbourn Hall (TCH) 236B

Carla Gripp

carla.gripp@ucf.edu

Telephone: 407-823-2126

Trevor Colbourn Hall (TCH) 236C

Graduate Admissions

Jennifer Yuhás

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Specialist

Education EdS

College: Community Innovation and Education	Degree: EdS
Department: School of Teacher Education	
Graduate Program Handbook	

Program Description

The Specialist in Education program is designed with two tracks for students: the Master's + 30 Track and the School Counseling Track. The Master's + 30 Track is an advanced graduate program for post master's students. It is designed for professionals who wish to increase their knowledge to prepare for doctoral work, to add expertise in their current field of teaching, or to add an additional field of expertise. The EdS in Education School Counseling Track prepares students to work as professional school counselors in Pre-K through postsecondary school settings.

The Specialist in Education program is designed for practicing educators who wish to gain expertise in a subfield within education and offers two tracks: School Counseling Track and the Master's + 30 Track. The program builds that expertise from a core of courses curriculum, instruction, learning theory, and research, and then allow students to work with an adviser to develop a program of study to gain expertise. The program is intended for educators who are interested in teaching in a college, university, or community college, or leading curriculum and instructional improvement in a school or school district, higher education, or military or business settings.

The specialist program provides a foundation of advanced graduate course work but is not a "terminal" academic degree. The Education EdS is an advanced graduate program providing opportunities for master's graduates to enhance their professional preparation and/or preparation for the doctorate (either the EdD or the PhD) by completing additional graduate coursework that results in an earned degree.

Program Tracks

- Education EdS, Master's +30 Track
- Education EdS, School Counseling Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track (i.e., Masters + 30 or School Counseling) in this program. Tracks may have different requirements.

Admission to an education specialist program is separate from admission to the doctoral program. Upon completion of the EdS degree, the student may apply for admission to a doctoral program.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Graduate Affairs

cciegrad@ucf.edu

Telephone: 407-823-5369

ED 115

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Education EdS, Master's +30 Track

College: Community Innovation and Education	Degree: EdS
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

This program has temporarily suspended admissions effective summer 2020

The Education EdS, Master's +30 Track is an advanced graduate program for post-master's students. It is designed for professionals who wish to increase their knowledge to prepare for doctoral work, add expertise in their current field of teaching, or add an additional field of expertise.

The program prepares educators who are interested in teaching in a college, university or community college, or in leading curriculum and instructional improvement in a school or school district, higher education, or military or business settings.

Curriculum

The Master's +30 track in the Education EdS program requires 30-33 credit hours beyond the master's degree, including advanced foundational core courses, specialization courses, and a capstone seminar.

Total Credit Hours Required: 30-33 Credit Hours Minimum beyond the Master's Degree

Required Courses: 30-33 Credit Hours

Advanced Foundational Core: 13-16 Credit Hours

* Must be taken in the first semester of the program.

** Student completes either a Capstone Research Project or Thesis at the end of the program.

- EDE 6933 - Introductory Seminar in Elementary Education **1 Credit Hours** * *For students with a specialization in Elementary Education or Reading Education*
- ESE 6935 - Introductory Seminar in Secondary Education **1 Credit Hours** * *For students with other specializations*
- EDP 7517 - Facilitating Learning, Development and Motivation **3 Credit Hours**
- EDF 7457 - Data, Assessment, and Accountability **3 Credit Hours**
- EDA 7101 - Organizational Theory in Education **3 Credit Hours**
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours** ** or
- IDS 6971 - Thesis **6 Credit Hours**

Capstone: 2 Credit Hours

- EDE 6935 - Capstone Seminar in Elementary Education **2 Credit Hours** *For students with a specialization in Elementary Education or Reading Education*
- ESE 6936 - Capstone Seminar in Secondary Education **2 Credit Hours** *For students with other specializations*

Specialization: 15 Credit Hours

For the specialization, students must complete 15 credit hours of specialization courses from one of the following UCF College of Community Innovation and Education programs. Courses are selected with approval of the student's adviser.

- One of the tracks in the Curriculum and Instruction MEd program
- The specialization or electives in another MEd program
- The concentration in the Education EdD program
- One of the tracks in the Education PhD program

Independent Learning

The EdS requires a small-scale research study (if co-enrolled in a doctoral program) or completion of a capstone experience such as an internship, research report, or thesis (if this is a "terminal" program for the student).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study.
- An official GRE score is not required for admission to the Education Ed. S., Master's + 30 Track. However, preference will be given to applicants who submit a competitive score. *Note that students who wish to co-enroll for the Ed.D. Program must apply to that program and comply with all admission criteria for that program including an acceptable GRE score.*
- A goal statement detailing the specific subfield of education in which the applicant intends for a specialization and explains how the degree will contribute to the applicant's career development plan. Applicants are strongly encouraged to contact faculty members in the College of Community Innovation and Education in their area of specialization before they apply to identify a potential advisor.
- Resume
- All applicants must attend an interview session and an orientation to be accepted to the program. These will be held on dates announced on the College of Community Innovation and Education website.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Master's +30	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	May 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Randall Hewitt PhD

Associate Professor

randall.hewitt@ucf.edu

Telephone: 407-823-4949

ED 122-P

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

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PO Box 160112

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Institution Codes

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UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827
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 Fax: 407-823-5241
 finaid@ucf.edu
 http://finaid.ucf.edu

Education EdS, School Counseling Track

College: Community Innovation and Education	Degree: EdS
Department: Counselor Education and School Psychology	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/cesp/counselored/	

Track Description

The Specialist in Education (EdS)–School Counseling track in the CACREP accredited Counselor Education Program prepares students for certification as a professional school counselor in pre-K through postsecondary school settings. The Specialist in Education (EdS)–School Counseling track is designed for practicing educators/students who have a master's degree in education.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and in field-based experiences in the community. The UCF Community Counseling and Research Center (CCRC) serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 clients per year.

who wish to gain expertise in a subfield within education or a closely related field. The program prepares students to work as professional school counselors in Pre-K through postsecondary school settings. Students enrolled in the School Counseling track of the EdS in Education should remain in close contact with their advisor to keep informed of any programmatic changes implemented to comply with new state requirements.

The Specialist in Education (EdS)–School Counseling track has potential ties to state-regulated professional certification in the field. Students enrolled in the School Counseling track should remain in close contact with their advisor to keep informed of any programmatic changes implemented to comply with new state requirements. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Education-School-Counseling-EdS.pdf>.

Curriculum

The School Counseling track in the Education EdS program requires a minimum of 48 credit hours beyond the master's degree, including 6 credit hours of core courses, 27 credit hours of specialization, 9 credit hours of DOE-required certification courses (if these have not been completed prior to entry), 9 credit hours of professional clinical experiences, and 6 credit hours of electives in either the nonthesis or thesis option.

Total Credit Hours Required: 48 Credit Hours Minimum beyond the Master's Degree

Required Courses: 33 Credit Hours

Core: 6 Credit Hours

- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**

Specialization: 27 Credit Hours

- MHS 6220 - Individual Psychoeducational Testing I **3 Credit Hours**
- MHS 6400 - Theories of Counseling and Personality **3 Credit Hours**
- MHS 6401 - Techniques of Counseling **3 Credit Hours**
- MHS 6420 - Foundations of Multicultural Counseling **3 Credit Hours**
- MHS 6500 - Group Procedures and Theories in Counseling **3 Credit Hours**
- SDS 6347 - Career Development **3 Credit Hours**
- SDS 6411 - Counseling with Children and Adolescents **3 Credit Hours**
- SDS 6620 - Coordination of Comprehensive Professional School Counseling Programs **3 Credit Hours**
- SPS 6815 - Legal and Ethical Issues in Professional School Counseling **3 Credit Hours**

Elective Courses/Nonthesis Option: 6 Credit Hours

Students must select two electives in their specialization as approved by their adviser.

- Two approved electives **6 Credit Hours**

Professional Clinical Experiences: 9 Credit Hours

The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients and students. The practicum is conducted either on campus in the UCF Community Counseling and Research Center or at one of the CCRC's partner schools in the community. Internship, which is usually completed in one semester (for 6-credit hours) is conducted at various schools around central Florida. The Internship can be divided into two semesters.

* Prerequisites for MHS 6803 - Practicum in Counselor Education are as follows: MHS 5005, MHS 6400, MHS 6401, MHS 6500, and SPS 6815. MHS 6420 and SDS 6411 are also pre or co-requisites for MHS 6803. A minimum of 27 credit hours are required prior to beginning the practicum.

** The prerequisites for SDS 6947 - Internship in Professional School Counseling include SDS 6620 and earning a "B" or better in MHS 6803.

- MHS 6803 - Practicum in Counselor Education **3 Credit Hours** *
- SDS 6947 - Internship in Professional School Counseling **1-6 Credit Hours** **
- SDS 6947 - Internship in Professional School Counseling **3 Credit Hours**

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- EdS students are strongly encouraged to take MHS 5005 during their first semester if it was not already taken in a Counselor Education master's program.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803 and SDS 6947.
- Complete a total of 700 hours of clinical experiences, 100 of which will be in the UCF Community Counseling and Research Center (or an area school) and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit exam.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are typically limited to taking a maximum of three (3) courses per semester (with some variability for those in the School Counseling track). However, if students believe that they can verify a need to take more than three courses, they should consult with their advisor for additional guidance. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum allowed.

DOE Certification - 9 Credit Hours

(EdS students need to have a Master's in Education (MEd) degree in order to waive the following education courses):

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of facilitating a comprehensive, professional school counseling program in a school setting (e.g., leading classroom guidance lessons, facilitating group counseling, providing individual counseling services).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of a master's degree in education.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation
- Resumé.
- Goal statement (see the Program website for additional information about the Goal statement).

The Specialist in Education-School Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Specialist in Education-School Counseling track, if in the judgment of the faculty, the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates for March and October will be posted on our Counselor Education website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

Admission to an Education Specialist program is separate from admission to the Doctoral program. Upon completion of the EdS degree, the student may apply for admission to a Doctoral program.

Application Deadlines

School Counseling	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Stacy Van Horn, PhD
Associate Lecturer
counsel@ucf.edu

Telephone: 407-823-2401
ED 322M

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Educational Leadership EdS

College: Community Innovation and Education	Degree: EdS
Department: Educational Leadership and Higher Education	Option: Nonthesis

Program Website: https://ccie.ucf.edu/elhe/educational-leadership/
Graduate Program Handbook

Program Description

The Education Specialist in Educational Leadership program is designed for those currently employed in or interested in decision-making positions in educational organizations.

The program is an advanced professional degree designed specifically for individuals who have completed a master's degree in a field other than Educational Leadership and who wish to meet the requirements for Florida Level 1 Educational Leadership Certification while working toward a degree. The Educational Leadership EdS program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Educational-Leadership-EdS.pdf>.

Students who complete an EdS in Educational Leadership may apply for admission to the doctoral program. The EdS program requires a research report at the completion of studies.

Curriculum

The Educational Leadership EdS program requires a minimum of 36 credit hours beyond the master's degree. Students must complete EDA 6909 Research Report at the completion of their study, as well as successfully complete EDA 6946 - Internship by earning at least a grade of "B."

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Master's Degree

Required Courses: 30 Credit Hours

Core: 9 Credit Hours

*EDA 7101 will be taken the last fall semester of enrollment prior to graduation; enrollment requires instructor permission.

- EDA 7101 - Organizational Theory in Education **3 Credit Hours** *
- EDA 6946 - Internship **VAR Credit Hours**
- EDA 6909 - Research Report **3 Credit Hours**

Specialization: 21 Credit Hours

- EDA 6061 - Organization and Administration of Schools **3 Credit Hours**
- EDA 6232 - Legal Aspects of School Operation **3 Credit Hours**
- EDA 6240 - Educational Financial Affairs **3 Credit Hours**
- EDA 6260 - Educational Systems Planning and Management **3 Credit Hours**
- EDA 6931 - Contemporary Issues in Educational Leadership **3 Credit Hours**
- EDS 6123 - Educational Supervisory Practices I **3 Credit Hours**
- EDS 6130 - Educational Supervisory Practices II **3 Credit Hours**

Co-requisite/Elective Courses: 6 Credit Hours

EDF 6401 and EDF 6481 are required co-requisites if students have not already completed them in their master's degree. If the courses have been completed, students must take up to 6 credit hours of electives as approved by their adviser.

- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
or
- Electives **6 Credit Hours** as approved by adviser

Additional Program Requirements

Educational leadership majors must successfully complete:

- 3 credit hour EDA 6946 Administrative Internship (should be taken within the last two semesters of enrollment)
- Pass all sections of the Florida Educational Leadership Examination and receive scores in time for graduation.

Independent Learning

Students must complete a research report at the conclusion of their studies.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study.
- Official, competitive GRE score taken within the last five years.
- Resumé.
- Three letters of recommendation.

Admission to the EdS in Educational Leadership program is separate from admission to the doctoral program. EdS graduates may apply for admission to the doctoral program.

Application Deadlines

Educational Leadership EdS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Oct 1	Feb 1

International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Contact Info

Graduate Program

Daniel Eadens, EdD

Daniel.Eadens@ucf.edu

Telephone: 407-823-4751

ED 220-E

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

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Grad Fellowships

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UCF Student Financial Assistance

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<http://finaid.ucf.edu>

School Psychology EdS

College: Community Innovation and Education	Degree: EdS
Department: Counselor Education and School Psychology	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/cesp/school-psychology/	
Graduate Program Handbook	

Program Description

The School Psychology EdS program is designed for students who wish to become certified School Psychologists. This specialist degree has very specific curriculum to meet the respective licensing requirements for school psychologists.

The EdS in School Psychology is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The School Psychology EdS program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-School-Psychology-EdS.pdf>.

The School Psychology Program is a unique specialization in psychology and education. This program is based on two assumptions. School psychologists can apply relevant knowledge and skills from a variety of disciplines to the learning and adjustment problems of preschool and school-age children. Also, relevant knowledge and skills can be transmitted

through a variety of services including (a) consultation with teachers and parents, (b) direct and indirect services to children and young adults, and (c) direct and indirect services to school and community organizations. School psychologists may practice in public or private schools, colleges and universities, rehabilitation centers, hospitals, mental health clinics, government agencies, child guidance centers, penal institutions, and may develop private practices. Applicants with backgrounds in education, psychology or other closely related undergraduate majors may qualify for the School Psychology degree program.

The program involves formal preparation and practical experiences focusing on psychological foundations (human development, learning, and motivation), psychoeducational assessment, exceptional students, remediation or intervention techniques, counseling skills, as well as a full-time supervised internship of two semesters in the public school setting.

Curriculum

The School Psychology EdS degree requires a minimum of 80 credit hours beyond the bachelor's degree, as well as a portfolio, practicum and research report at the completion of study. Please note that 62 credit hours are completed before internship. The research report and internship courses comprise 18 credit hours that are completed during the internship.

Total Credit Hours Required: 74 Credit Hours Minimum beyond the Bachelor's Degree

With the exception of SPS 5605 - Building and Improving Relationship and Emotional Intelligence, and SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making, SPS courses are only open to students in the School Psychology Program.

Prerequisites or Co-requisites (DOE Certification)

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- EEX 6061 - Instructional Strategies Pre-K-6 **3 Credit Hours**
- EEX 6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education **3 Credit Hours**

Required Courses: 56 Credit Hours

Core: 3 Credit Hours

- EDF 6401 - Statistics for Educational Data **3 Credit Hours**

Specialization: 47 Credit Hours

- SPS 6601 - Introduction to Psychological Services in Schools **3 Credit Hours**
- SPS 6606 - Consultation in School Psychology **3 Credit Hours**
- SPS 6608 - Seminar in School Psychology **3 Credit Hours**
- SPS 6801 - Developmental Bases of Diverse Behaviors **3 Credit Hours**
- SPS 6225 - Behavioral and Observational Analysis of Classroom Interactions in Schools **3 Credit Hours**
- SPS 6931 - Ethical and Legal Issues in School Psychological Services **3 Credit Hours**
- MHS 6401 - Techniques of Counseling **3 Credit Hours**

- SPS 6191 - Individual Psychoeducational Diagnosis I **4 Credit Hours**
- SPS 6192 - Individual Psychoeducational Diagnosis II **4 Credit Hours**
- SPS 6125 - Preschool Psychoeducational Assessment **3 Credit Hours**
- SPS 6194 - Assessment of Special Needs **3 Credit Hours**
- SPS 6206 - Psychoeducational Interventions **3 Credit Hours**
- SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making **3 Credit Hours**
- SPS 5605 - Building and Improving Relationship and Emotional Intelligence **3 Credit Hours**
- SPS 6175 - Cultural Diversity and Nonbiased Assessment **3 Credit Hours**

Research Report: 6 Credit Hours

Choose one of the following two sets of courses.

- SPS 6909 - Research Report I and II **6 Credit Hours**
or
- SPS 6402 - Applied Prevention and Intervention in Schools I **3 Credit Hours**
- SPS 6403 - Applied Prevention and Intervention in Schools II **3 Credit Hours**

Practicum and Internship: 18 Credit Hours

- SPS 6946 - Practicum in School Psychology I **3 Credit Hours**
- SPS 6946 - Practicum in School Psychology II **3 Credit Hours**
- SPS 6948 - School Psychology Internship **6 Credit Hours** (12 credit hours)

Additional Program Requirements

- Complete an electronic portfolio that documents reflections on study and learning experiences throughout the program and receive approval by the School Psychology faculty.
- Pass a comprehensive exam.
- Pass the Florida Teacher Certification Examination (FTCE).

UPDATE: In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT Subtest	GRE Subtest	Minimum GRE Score Required to Substitute for GK Subtest
GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151

GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147
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NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a **new** Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

Equipment Fee

Students in the School Psychology EdS program pay a \$90 equipment fee each semester that they are enrolled. A materials fee of \$45 is charged for each of four assessment courses.

Independent Learning

A practicum and research report are required as the culminating independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will receive priority consideration for admission by attending an Information Session with program faculty. Call (407) 823-2401 for meeting dates or visit the program website at <https://ccie.ucf.edu/cesp/school-psychology/>.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A baccalaureate degree in Education, Psychology, or related discipline.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation (one from a faculty member).
- Resumé.
- A one-page goal statement.
- Receive a favorable recommendation for admission by the School Psychology Review Committee.

This program can only accommodate a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met. Admissions to this program will only occur in the fall term. Information concerning specific admissions policies and procedures can be obtained from the program website: <https://ccie.ucf.edu/cesp/school-psychology/>. All other questions will be answered during the Information Sessions prospective students are required to attend.

Application Deadlines

School Psychology EdS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		

International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

Oliver Edwards PhD

Professor
oliver.edwards@ucf.edu
Telephone: 407-823-2401
Education 209H

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233

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Graduate Fellowships

Grad Fellowships

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gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Appointment Line: 407-823-5285
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finaid@ucf.edu
<http://finaid.ucf.edu>

Master of Fine Arts

Creative Writing MFA

College: Arts and Humanities	Degree: MFA
Department: English	Option: Thesis
Program Websites: https://english.cah.ucf.edu/creative-writing-mfa/	
Graduate Program Handbook	

Program Description

The Creative Writing MFA offers a workshop-intensive program in fiction, nonfiction, and poetry, emphasizing the art and craft of creative writing and concentrating on the student's written work. The program encourages hybrid and experimental forms.

The MFA program emphasizes the study of craft and published writing alongside the closely analyzed production of original work by students. Opportunities for professional development as writers, teachers, and editors abound. Our prolific, dedicated faculty members have won numerous prestigious awards for their work and have served as officers in national professional organizations. The MFA program in Creative Writing offers workshop courses in fiction, nonfiction, and poetry, emphasizing the art and craft of creative writing and concentrating on the student's written work.

Curriculum

The minimum total hours required for the Creative Writing MFA is 36 credit hours, including a minimum of nine required credit hours of graduate writing workshop classes. Each candidate will write a book-length creative thesis. There is no nonthesis option in Creative Writing.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites and Co-requisites

Students are required to have a proficiency in American and British Literature as reflected by completing at least one survey course in each field. Students with baccalaureate degrees in subjects other than English whose transcripts do not clearly indicate successful completion of such courses will be required to complete survey courses in British and American literature as co-requisites before the thesis defense. The particular courses that satisfy these co-requisites are selected in consultation with the MFA program director.

Required Courses—15 Credit Hours

Core—9 Credit Hours

While the student is expected to concentrate their workshop study in their chief genre, multi-genre proficiency is encouraged. Additional credit hours beyond the required 9 credit hours in workshops that include their chief genre are recommended to assist the student in developing better writing and publication skills.

- CRW 6025 - Advanced Graduate Writing Workshop **3 Credit Hours**
- CRW 6920 - Fiction Workshop **3 Credit Hours**
- CRW 6921 - Multi-Genre Workshop **3 Credit Hours**
- CRW 6922 - Novel Workshop **3 Credit Hours**
- CRW 6923 - Nonfiction Workshop **3 Credit Hours**
- CRW 6924 - Poetry Workshop **3 Credit Hours**

Specialization—6 Credit Hours

The student will complete two of the following courses:

- LIT 6039 - Studies in Contemporary Poetry **3 Credit Hours**
- LIT 6097 - Studies in Contemporary Fiction **3 Credit Hours**
- LIT 6076 - Studies in Contemporary Nonfiction **3 Credit Hours**
- CRW 5130 - Form and Theory in Creative Writing **3 Credit Hours**

Elective Courses—15 Credit Hours

Restricted Electives—6 Credit Hours

- CRW 6720 - Professional Development in Creative Writing **3 Credit Hours**
- CRW 6721 - Literary Journal Editing **3 Credit Hours**
- CRW 6976 - Scholarship and Publication Models **3 Credit Hours**
- CRW 6806C - Teaching Creative Writing **3 Credit Hours**

- CRW 5938 - Special Topics Seminar **3 Credit Hours**
- CRW 5948C - Creative Writing Service Learning **3 Credit Hours**
- CRW 6946 - Internship **3 Credit Hours**
- CRW 6025 - Advanced Graduate Writing Workshop **3 Credit Hours** *
*CRW 6920, CRW 6921, CRW 6922, CRW 6923, CRW 6924 may substitute for CRW 6025

Unrestricted Electives—6 Credit Hours

- CRW 5130 - Form and Theory in Creative Writing **3 Credit Hours**
- LIT 6216 - Issues in Literary Study **3 Credit Hours**
- LIT 6936 - Studies in Literary, Cultural, and Textual Theory **3 Credit Hours**
- ENC 5705 - Approaches to Teaching College Composition **3 Credit Hours**
- LIT 6276 - Teaching College Literature **3 Credit Hours**

Additional Electives—3 Credit Hours

Thesis—6 Credit Hours

- CRW 6971 Thesis **3 Credit Hours**

The candidate will complete a book-length manuscript of publishable quality, written and revised in CRW 6971 Thesis, that meets both departmental and university requirements for the thesis.

Practicum and Internship

Although a practicum or an internship is not required, they are encouraged to better prepare the student for their profession. These courses fulfill the 6-hour requirement in restricted electives and are listed in that category.

- CRW 6946 Internship
 - The Florida Review Internship **3 Credit Hours**
 - The Cypress Dome Internship **3 Credit Hours**
 - Other Approved Internship **3 Credit Hours**
- CRW 5948C - Creative Writing Service Learning **3 Credit Hours**

Independent Learning

The creative thesis, a book-length manuscript of original creative work, is the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Three letters of recommendation (preferably from current or former teachers).

- Statement of background and goals. In the first sentence of your statement, please specify the primary genre of study (fiction, poetry, or literary nonfiction). If you were not an English major, we recommend you include a list (5-7 titles) of recently read contemporary books in the genre in which you are applying.
- Résumé or CV.
- A portfolio of fiction, poetry, or creative nonfiction. The portfolio must be in English and in the applicant's primary genre (up to 15 pages of poetry, 30 pages of fiction, or 30 pages of literary nonfiction). This manuscript is the most important element of a candidate's application. It will be evaluated by a committee of creative writing faculty to assess the candidate's readiness for graduate study. The committee's decision is based upon its qualitative assessment for the manuscript's competence in standard English and originality, and the author's demonstrated potential to succeed in the profession of creative writing.
- At least one survey course in both English and American literature at the university level (may be taken while in graduate residence).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

More detailed information about each of these program application requirements can be found on the Program's Website.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Creative Writing MFA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Contact Info

Graduate Program

Terry Thaxton

terry.thaxton@ucf.edu

Telephone: 407-823-2112

Trevor Colbourn Hall (TCH) 251

Ethan Watford

ethan.watford@ucf.edu

Telephone: 407-823-5329

Trevor Colbourn Hall (TCH) 251E

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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PO Box 160112

Orlando, FL 32816-0112

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gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

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UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu
http://finaid.ucf.edu

Emerging Media MFA

College: Arts and Humanities	Degree: MFA
Department: School of Visual Arts and Design	Option: Thesis
Program Websites: https://svad.cah.ucf.edu/academics/emerging-media/	

Program Description

The Master of Fine Arts in Emerging Media program offers tracks in Animation and Visual Effects and Studio Art and Design. The MFA is a terminal scholarly and creative degree suitable for those students wishing to pursue careers as professors in higher education or as creative leaders in the industry.

Both tracks require 60 credit hours and students follow a three-year cohort style program (six full-time semesters excluding summers). Degree credit is obtained in theory courses, electives, supervised research, and a thesis project. Students progress through the program by taking required classes in particular semesters. Students must remain with their cohort in order to remain in good academic standing and graduate.

The Animation and Visual Effects track is a specialized program designed to emulate the professional studio environment, providing opportunities to assume an artistic leadership role. The principal emphasis is placed on narrative film structure and the entrepreneurial aspects of animation as related to independent filmmaking, studio employment, and job creation.

The Studio Art and Design track provides students an opportunity to inform and enhance their artistic practice using twenty-first-century electronic media. The emphasis on electronic media is pliable enough to encompass the many ways in which technology intersects with contemporary art and design. Students in the program are invited to combine their backgrounds in traditional art- or computer-related disciplines within a conceptually driven, interdisciplinary environment. Courses provide exposure to time-based media, performance art, video art, sound works, kinetic sculpture, computer-based art, and art using the Internet in order to understand how these forms are driving twenty-first-century artistic practice and informing our understanding of contemporary cultural identities.

Program Tracks

- Emerging Media MFA, Animation and Visual Effects Track
- Emerging Media MFA, Studio Art and Design Track ♦♦

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track within this program. Track(s) may have different application requirements.

Financials

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Contact Info

Graduate Program

Animation and Visual Effects Track

Cheryl Briggs MEd, MFA

Associate Professor

cheryl.briggs@ucf.edu

Telephone: 407-235-3611

Orlando Tech Center (OTC) Suite 500, Room 189

Studio Art and Design Track

Jason Burrell

Associate Lecturer

jason.burrell@ucf.edu

Telephone: 407-823-2676

Visual Arts Building (VAB) 117

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Emerging Media MFA, Animation and Visual Effects Track

College: Arts and Humanities	Degree: MFA
Department: School of Visual Arts and Design	Option: Thesis
Program Websites: https://svad.cah.ucf.edu/program/animation-and-visual-effects/	
Graduate Program Handbook	

Track Description

Housed in the School of Visual Arts and Design (SVAD), the Emerging Media MFA - Animation and Visual Effects track is a specialized program designed to emulate the professional and independent studio environment, providing opportunities to assume an artistic leadership role. The principal emphasis is placed on narrative film structure and the entrepreneurial aspects of animation as related to independent filmmaking, studio employment, and job creation.

Designed to prepare students for careers in animation, courses provide an understanding of the collaborative function of a commercial studio during the first year production courses. In addition, students develop their unique style of

independent filmmaking during preproduction and production of their thesis film over the duration of the three year program. Opportunities are available to co-direct a team of undergraduate character animation students, adding toward our canon of award-winning films. Labs and studios are equipped with the same industry-standard software and hardware used in professional studios.

Students desiring admission to the Emerging Media MFA - Animation and Visual Effects track should be primarily interested in the opportunity to create their own animation and/or visual effects thesis. In this program students are encouraged to develop their visual storytelling skills while using a variety of animation and visual effects techniques, including traditional hand-drawn, stop motion, 2D computer, and 3D computer animation.

Applicants should have an undergraduate degree in animation, visual effects, emerging media, art, film, theater, computer science, graphic design, illustration, creative writing, mass communications, game design, or related field and must demonstrate, through a portfolio of work and writing, that they are currently proficient and successful in the area of Animation.

The Emerging Media MFA - Animation and Visual Effects track is a competitive program whereby students receive the best instruction from professors who have had extensive professional industry experience and connections. Drawing on the expertise of the current faculty, graduates are well qualified to enter the teaching and academic professions. SVAD graduates have a competitive edge for greater opportunities within the animation, visual effects, and simulation industries.

Current SVAD alumni work for major animation and gaming companies such as Walt Disney Animation Studios, PIXAR Animation Studios, Blue-Sky Animation Studios, Weta Digital, Framestore, Lightbox, MPC, Titmouse, Netflix, Genius Brands, Reel FX, Nickelodeon Animation Studios, Blur Studios, Epic Games, Electronic Arts, Riot Games, Turtle Rock Studios, and Blizzard Entertainment or creating simulations for organizations including the U.S. Navy, NASA, DISTI, and Lockheed Martin.

Curriculum

The Animation and Visual Effects track in the Emerging Media MFA program is a full-time three-year program (six full-time semesters excluding summers in most instances) and students must progress through the program by taking required classes in particular semesters. The program requires a minimum of 60 credit hours including a thesis project. All courses must be approved by the Graduate Program Director. The thesis consists of producing a short film and thesis document

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Bachelor's Degree

Graduate students must maintain a 3.0 or better GPA in all course work to complete the program.

Required Courses: 48 Credit Hours

- DIG 5439C - Script and Story Development for Animation and Visual Effects **3 Credit Hours**
- DIG 5865 - The History of Animation and Visual Effects **3 Credit Hours**
- DIG 5386C - Animation and Visual Effects Production I **3 Credit Hours**
- DIG 5366C - Animation and Visual Effects Production II **3 Credit Hours**
- DIG 5387C - Visual Development and Design for Animation and Visual Effects **3 Credit Hours**
- DIG 5378C - Editing for Animation and Visual Effects I: Theory and Production **3 Credit Hours**
- DIG 5385C - Visual Effects for Animation and Live Action I **3 Credit Hours**
- DIG 6379C - Editing for Animation and Visual Effects II: Practical Editing **3 Credit Hours**
- DIG 6365C - Media and Music for Animation and Visual Effects **3 Credit Hours**
- DIG 6388C - Animation and Visual Effects Production III **3 Credit Hours**
- DIG 6384C - Directing for Animation and Visual Effects **3 Credit Hours**

- DIG 6389C - Animation and Visual Effects Production IV **3 Credit Hours**
- DIG 6377C - Visual Effects for Animation and Live Action II **3 Credit Hours**
- DIG 6866C - Technical Problem Solving for Animation and Visual Effects **3 Credit Hours**
- FIL 5800 - Research Methods in Film and Digital Media **3 Credit Hours**
- FIL 6619 - Guerilla Marketing and Models of Distribution **3 Credit Hours**

Thesis: 12 Credit Hours

The thesis consists of a short film production and thesis document.

The final oral review before the supervisory thesis committee occurs at the end of the sixth semester. At the same time, the graduate student presents a short film production. Students are required to submit an electronic version of the thesis to the UCF College of Graduate Studies. After approval by the UCF College of Graduate Studies, the UCF Library will add it to its archives and make the electronic version of the thesis accessible on the web. The required thesis is created during the independent learning experience in the degree program.

- DIG 6971 - Thesis **12 Credit Hours**

Course Schedule

The Emerging Media MFA - Animation and Visual Effects track is a full-time, three-year cohort program that requires students to abide by the following course sequence. Students must remain with their cohort in order to remain in good academic standing and graduate.

Year 1

Fall: 12 Credit Hours

- DIG 5439C - Script and Story Development for Animation and Visual Effects **3 Credit Hours**
- DIG 5865 - The History of Animation and Visual Effects **3 Credit Hours**
- DIG 5386C - Animation and Visual Effects Production I **3 Credit Hours**
- FIL 5800 - Research Methods in Film and Digital Media **3 Credit Hours**

Spring: 12 Credit Hours

- DIG 5366C - Animation and Visual Effects Production II **3 Credit Hours**
- DIG 5387C - Visual Development and Design for Animation and Visual Effects **3 Credit Hours**
- DIG 5378C - Editing for Animation and Visual Effects I: Theory and Production **3 Credit Hours**
- DIG 5385C - Visual Effects for Animation and Live Action I **3 Credit Hours**

Year 2

Fall: 9 Credit Hours

- DIG 6379C - Editing for Animation and Visual Effects II: Practical Editing **3 Credit Hours**
- DIG 6388C - Animation and Visual Effects Production III **3 Credit Hours**
- DIG 6384C - Directing for Animation and Visual Effects **3 Credit Hours**

Spring: 9 Credit Hours

- DIG 6389C - Animation and Visual Effects Production IV **3 Credit Hours**
- DIG 6377C - Visual Effects for Animation and Live Action II **3 Credit Hours**
- DIG 6365C - Media and Music for Animation and Visual Effects **3 Credit Hours**

Year 3

Fall: 9 Credit Hours

- DIG 6866C - Technical Problem Solving for Animation and Visual Effects **3 Credit Hours**
- DIG 6971 - Thesis **6 Credit Hours**

Spring: 9 Credit Hours

- FIL 6619 - Guerilla Marketing and Models of Distribution **3 Credit Hours**
- DIG 6971 - Thesis **6 Credit Hours**

Equipment Fee

Students in the Emerging Media MFA program pay a \$90 equipment fee each semester that they are enrolled.

Independent Learning

A thesis is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants to the MFA program normally must hold an earned bachelor's degree in one of the areas below or equivalent and must have exhibited, through a portfolio of work or writing that they are currently proficient and successful in the area of Animation.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) for each college/university attended.
- A bachelor's degree in one of the following areas or equivalent:
 - Animation
 - Art
 - Emerging Media
 - Film
 - Theatre
 - Computer Science
 - Graphic Design
 - Illustration
 - Creative Writing

- Mass Communications
- Game Design
- Statement of purpose: In your own words, submit a 500-to-700 word statement of why you are interested in the Emerging Media MFA -Animation and Visual Effects track and what your intended focus might be. Tell us a little about yourself and your professional goals.
- Three letters of recommendation preferably from people who have personal knowledge of your abilities and scholarship such as educators/faculty members, employment supervisors, organizational leaders, or industry professionals with whom you have worked.
- Resume: Please submit a one to two page resume documenting your educational credentials, relevant professional and internship experience, academic achievements, honors, exhibits, publications, memberships, and interest including volunteer work.
- Original Animation/VFX Production Concept for a one to five-minute project:
 - A full storyboard
 - A full script treatment written in short story format for that storyboard
 - Visual Development drawings of characters, setting, and production design reflecting research and technique
- Other Creative Work:
 - A portfolio of ten to twenty pieces of traditional or digital work which demonstrates abilities in life drawing as well as proficiency in the field of animation and/or visual effects.
 - For each item submitted, include the title, media, date of completion, and size or length of the piece.
 - Some examples of work that could be submitted include:
 - 2D Design: Painting, drawing, photography, mixed media, fashion design, character design, illustrations, graphic designs, game, or film visual development artwork.
 - 3D Design: Sculpture, theatrical design, architectural renderings or models, 3D computer models, and installation pieces.
 - Drawing from life: Human and animal drawings, quick sketches, long poses, and perspective drawing.
 - Time Arts work (less than 3 minutes of work): Animation pieces, flipbooks, and/or demo reel.
 - Storytelling: Script or fictional narrative writing, sequential art illustration, comic book and graphic novel illustration and writing, book illustrations, and additional storyboards.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee admission to the MFA program. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program, and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool. A strong emphasis is placed on the review of the portfolio of original creative work and the letter of research intent.

Application Deadlines

Animation and Visual Effects	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Jan 15	May 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Cheryl Briggs MEd, MFA

Associate Professor

cheryl.briggs@ucf.edu

Telephone: 407-235-3611

Orlando Tech Center (OTC) Suite 500, Room 189

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Emerging Media MFA, Studio Art and Design Track ♦♦

College: Arts and Humanities	Degree: MFA
Department: School of Visual Arts and Design	Option: Thesis
Program Websites: https://svad.cah.ucf.edu/program/studio-art-mfa/	
Graduate Program Handbook	

Track Description

The Studio Art and Design track of the MFA in Emerging Media, provides students an opportunity to inform and enhance their artistic practice using 21st Century electronic media.

This emphasis on electronic media is pliable enough to encompass the many ways in which technology intersects with contemporary art and design.

Students in the program are invited to combine their backgrounds in traditional art or computer-related disciplines within a conceptually driven, interdisciplinary environment. Courses provide exposure to time-based media, performance art, video art, sound works, kinetic sculpture, computer-based art, and art using the Internet in order to understand how these forms are driving 21st century artistic practice and informing our understanding of contemporary cultural identities.

Curriculum

The Studio Art and Design MFA track is composed of a minimum of 60 credit hours, to be acquired in three years (six full-time semesters excluding summers). Degree credit is obtained in theory courses, studio art courses, electives, and supervised research. All courses must be approved by the Graduate Program Director. The thesis consists of a body of artistic work accompanied by electronic (Internet) documentation and a culminating exhibition.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Bachelor's Degree

Graduate students must maintain a 3.0 or better GPA in all course work to complete the program. Continuation in the MFA program requires a positive annual evaluation by the Program Director of the School of Visual Arts and Design and by the Graduate Committee of the School of Visual Arts and Design.

Required Courses: 24 Credit Hours

- ARH 5897 - Advanced Seminar in Art History **3 Credit Hours**
- ART 6687 - Research Concentration **3 Credit Hours**
- ART 6911C - Studio Concentration **3 Credit Hours** Should be taken 4 times for a total of **12 credit hours**.
- ART 6930 - Graduate Seminar **1 Credit Hours** Should be taken 6 times for a total of **6 credit hours**.

Elective Courses: 18 Credit Hours

Students should choose from graduate level courses within the School of Visual Arts & Design that are not already required for their program. These courses included those with the following prefixes: ARH, ART, GRA, and PGY. If approved by the Graduate Program Director, there are many graduate-level courses in the College of Arts and Humanities that can be used as electives in addition to other graduate courses. These courses must be selected so as to ensure that at least one-half of the courses in the student's plan of study are taken at the 6000 level. Normally, at least half of the selected electives should be taken within the School of Visual Arts and Design.

A listing of courses offered can be found in the drop-down Catalog Menu at the top of the page under "Courses".

Restricted Electives: 9 credit hours

Students must take 3 of the following:

- ART 5280 - Serial Content **3 Credit Hours**
- ART 5284 - Design Theory and Methods **3 Credit Hours**
- ART 5696 - Art, Design and Human Interactions **3 Credit Hours**
- ART 5811 - The Professional Practice of Art **3 Credit Hours**
- ART 6683 - Time Arts **3 Credit Hours**

Unrestricted Electives: 9 credit hours

Graduate students enroll in three graduate ART/ARH/GRA/PGY split-level courses (graduate courses stacked with corresponding undergraduate courses). The graduate level syllabus distinctly highlights the increased research, production and evaluative criteria.

Thesis: 18 Credit Hours

The thesis consists of a body of artistic work accompanied by electronic (Internet) documentation and a culminating exhibition.

The final oral review before the supervisory thesis committee occurs at the end of the sixth semester. At the same time, the graduate student presents a thesis exhibition of selected works from the cumulative body of works produced during his/her three years of residency. In addition, the thesis requires an artist's statement and documentation. The thesis will contain research intentions, results, and the body of the creative works produced. Students are required to submit an electronic version of the thesis to the UCF College of Graduate Studies. After approval by the UCF College of Graduate Studies, the UCF Library will add it to its archives and make the electronic version of the thesis accessible on the web. The required thesis is the independent learning experience in the degree program.

- ART 6971 - Thesis **18 Credit Hours**

Course Schedule

The Emerging Media MFA is a full-time 3-year cohort program that requires students to abide by the following course sequence. Students must remain with their cohort in order to remain in good academic standing and graduate.

Year 1

Fall: 10 Credit Hours

- ARH 5897 - Advanced Seminar in Art History **3 Credit Hours**
- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**
- Restrictive Elective: **3 Credit Hours**

Spring: 10 Credit Hours

- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**
- Restricted Elective: **3 Credit Hours**
- ART/ARH/GRA/PGY 5000-Level Unrestricted Elective: **3 Credit Hours**

Year 2

Fall: 10 Credit Hours

- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**
- Restricted Elective: **3 Credit Hours**
- ART/ARH/GRA/PGY 5000-Level Unrestricted Elective: **3 Credit Hours**

Spring: 10 Credit Hours

- ART 6687 - Research Concentration **3 Credit Hours**
- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**

- ART/ARH/GRA/PGY 5000-Level Unrestricted Elective: **3 Credit Hours**

Year 3

Fall: 10 Credit Hours

- ART 6930 - Graduate Seminar **1 Credit Hours**
- ART 6971 - Thesis **9 Credit Hours**

Spring: 10 Credit Hours

- ART 6930 - Graduate Seminar **1 Credit Hours**
- ART 6971 - Thesis **9 Credit Hours**

Equipment Fee

Students in the Emerging Media MFA program pay a \$90 equipment fee each semester that they are enrolled.

Independent Learning

A thesis is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants to the MFA program normally must hold an earned BFA degree in Visual Art from a regionally accredited institution. Applicants who hold an earned BA, BS, or other baccalaureate degree in Visual Art or a related discipline from an accredited university may also apply.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A letter of research intent that is at least a page describing the applicant's creative background, proposed research interests, and the relationship between this program and the applicant's future goals. Research in the context of the MFA program primarily means the full-time creation of an original body of art work over the course of three years of residence.
- Two letters of recommendation preferably from former visual art professors.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Portfolio of original creative works

- 20 jpeg images total (1000 pixels longest dimension – 72 dpi) or a 3-minute demo reel for animation portfolios. Please abide by these guidelines.
- The total portfolio file size must no larger than 2.5 MB. If you are submitting a video file that is larger than 2.5 MB please upload the video to YouTube or Vimeo and provide the link in this section of the application. View YouTube uploading instructions here: <http://www.google.com/support/youtube/bin/answer.py?hl=en&answer=57924>. When uploading the video, please title the submission with your full name, and select "unlisted" as your Privacy choice.
- Please upload a document with the link to your portfolio to the application. The link can be from You Tube, Vimeo, DropBox, Google Drive, etc. You may also upload your PDF portfolio directly to the application or submit it via email to svadadvising@ucf.edu.

Meeting minimum UCF admission criteria does not guarantee admission to the MFA program. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool. A strong emphasis is placed on the review of the portfolio of original creative work and the letter of research intent.

Application Deadlines

Studio Art and the Computer	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jason Burrell

jason.burrell@ucf.edu
Telephone: 407-362-8460
Visual Arts Building (VAB) 117

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

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UCF Student Financial Assistance

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Feature Film Production MFA

College: Sciences	Degree: MFA
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Department: Nicholson School of Communication and Media	Option: Thesis
Program Websites: https://communication.ucf.edu/degree/film-production-mfa/	
Graduate Program Handbook	

Program Description

The Feature Film Production MFA is a terminal degree, the highest degree awarded to filmmakers or film artists. It is a highly selective and rigorous professional film production program for visual artists and film practitioners who demonstrate exceptional artistic and intellectual prowess, evidence of significant professional promise and a commitment to the expressive potential of digital filmmaking and the exploration of non-traditional modes of distribution. The Feature Film Production MFA produces graduates with mastery of storytelling through the digital medium as it encourages the candidate to find his or her personal style. Entrepreneurial in spirit, the program emphasizes story, performance, aesthetic choice, business, and creative thinking. When participation is committed and complete, the program develops graduates who can compete in the worlds of national and international independent filmmaking.

Students will pursue a modality - narrative, documentary, or experimental - for their thesis film, or body of work, during their first two semesters in the program. All MFA candidates must take the core required courses but will choose electives that best match their modalities and interests. Upon completion of the degree, each student will have produced a microbudget digital feature film or equivalent body of work that meets standards outlined in the Program Graduate Handbook. Students will also have prepared a marketing strategy for its distribution and exhibition. Graduates in this program are responsible to funding their own their own thesis projects, including fundraising and soliciting investors where needed. Historically, graduates have produced feature films within the budget range of 5-25K. Budgetary needs can vary greatly depending on the scope and modality of the thesis. Consulting with the thesis committee regarding the appropriate budgetary scale is advised for all students. Budgets exceeding 50K are strongly discouraged.

We welcome innovative approaches within the digital cinema paradigm that reimagine how new technologies can create alternative performances to exploit the tension between narrative and experimental storytelling, creating a new agency for actors and new expectations for audiences.

Curriculum

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—30 Credit Hours

- FIL 5406 - Theories of Film Production **3 Credit Hours**
- FIL 5800 - Research Methods in Film and Digital Media **3 Credit Hours**
- FIL 5924 - Graduate Seminar **1 Credit Hours**
- FIL 6454 - Microbudget Production Design **3 Credit Hours**
- FIL 6596 - Advanced Directing Workshop for Film and Digital Media **3 Credit Hours**
- FIL 6619 - Guerilla Marketing and Models of Distribution **3 Credit Hours**
- FIL 6644 - Microbudget Pre-Production **3 Credit Hours**
- FIL 6649 - Microbudget Post-Production **3 Credit Hours**
- FIL 6673 - Arts and Media Entrepreneurship **3 Credit Hours**

Note: **FIL 5924 Graduate Seminar** is 1 Credit Hour to be taken each semester for a total of 6 credits.

Internal Elective Courses—9 Credit Hours

Students select a minimum of 9 credit hours of internal electives that reflect their mode of filmmaking interest (narrative, documentary, or experimental). More than 9 credit hours of internal electives may be taken to substitute for external electives if approved by the graduate program coordinator. *Students in other graduate programs are required to receive instructor consent before enrolling.*

- **FIL 5141C - Feature/TV Writing 3 Credit Hours**
- **FIL 5371C - Documentary Production 3 Credit Hours**
- **FIL 5419 - Developing the Film Screenplay 3 Credit Hours**
- **FIL 5422C - Experimental Cinema 3 Credit Hours**
- **FIL 6146 - Screenplay Refinement 3 Credit Hours**

Note: **FIL 5907 Independent Study** and **FIL 5917/5918 Directed Research** may be taken for a total of no more than six credit hours each.

External Electives—12 Credit Hours

Students select a minimum of 12 credit hours of external electives that align with their particular interests, outside the MFA in Feature Film Production. Choice of external electives should be made after discussion with the thesis advisor or graduate coordinator. Other electives related to the thesis topic may be approved by the graduate coordinator. Not all of these courses are offered every term, prerequisites and consent of instructor may be required.

- **ADV 6209 - Advertising and Society 3 Credit Hours**
- **ARH 5897 - Advanced Seminar in Art History 3 Credit Hours**
- **ART 5280 - Serial Content 3 Credit Hours**
- **ART 6683 - Time Arts 3 Credit Hours**
- **ART 6911C - Studio Concentration 3 Credit Hours**
- **COM 5932 - Topics in Communication Theory and Research 3 Credit Hours**
- **COM 6046 - Interpersonal Communication 3 Credit Hours**
- **COM 6047 - Interpersonal Support in the Workplace 3 Credit Hours**
- **COM 6048 - Communication in Close Relationships 3 Credit Hours**
- **COM 6121 - Communication Management 3 Credit Hours**
- **COM 6145 - Organizational Communication 3 Credit Hours**
- **COM 6463 - Studies in Intercultural Communication 3 Credit Hours**
- **COM 6467 - Studies in Persuasion 3 Credit Hours**
- **COM 6468 - Communication and Conflict 3 Credit Hours**
- **DIG 5366C - Animation and Visual Effects Production II 3 Credit Hours**
- **DIG 5378C - Editing for Animation and Visual Effects I: Theory and Production 3 Credit Hours**
- **DIG 5386C - Animation and Visual Effects Production I 3 Credit Hours**
- **DIG 5439C - Script and Story Development for Animation and Visual Effects 3 Credit Hours**
- **DIG 5487 - Media Aesthetics 3 Credit Hours**
- **DIG 5865 - The History of Animation and Visual Effects 3 Credit Hours**
- **DIG 6099C - Media Distribution 3 Credit Hours**
- **DIG 6136 - Design for Interactive Media 3 Credit Hours**
- **DIG 6365C - Media and Music for Animation and Visual Effects 3 Credit Hours**

- DIG 6379C - Editing for Animation and Visual Effects II: Practical Editing **3 Credit Hours**
- DIG 6551 - Theory and Practice of Interactive Storytelling **3 Credit Hours**
- ENT 5016 - New Venture Design **3 Credit Hours**
- ENT 5206 - New Venture Implementation **3 Credit Hours**
- ENT 5619 - Creativity and Entrepreneurship **3 Credit Hours**
- MMC 6202 - Legal and Ethical Issues for Communication **3 Credit Hours**
- MMC 6307 - International Communication **3 Credit Hours**
- MMC 6567 - New Media **3 Credit Hours**
- MMC 6600 - Media Effects and Audience Analysis **3 Credit Hours**
- MMC 6612 - Communication and Government **3 Credit Hours**
- MMC 6735 - Social Media as Mass Communication **3 Credit Hours**
- PUR 6215 - Communicating Corporate Social Responsibility **3 Credit Hours**
- PUR 6405 - Communication and Public Relations in Politics and Government **3 Credit Hours**
- SPC 6340 - Teaching Communication **3 Credit Hours**
- SPC 6442 - Small Group Communication **3 Credit Hours**

Thesis—12 Credit Hours

Before undertaking the thesis project, candidates must meet with the thesis advisory committee to submit and discuss the proposed project and obtain the committee's approval. The thesis requires intensive applied learning in order to complete a feature-length project and/or body of work. The student cannot enroll in thesis hours until the thesis advisory committee has been selected and approved. Once a student has begun to take thesis hours, they must enroll in at least one thesis hour for each remaining term until graduation. Students may spread out thesis hours any way they wish but are advised to follow recommendations in the program handbook.

The thesis project has a strong research component both in the initial development phase and in the creation of the distribution and marketing plan for the project. In addition to creating the feature film or body of work, the student must write an accompanying thesis paper that meets all university requirements (see ETD Requirements). The final stage of the curriculum serves as a bridge to the professional world and supports the entrepreneurial philosophy of the program. The thesis project must be reviewed by the faculty adviser throughout the production process, and meet agreed upon criteria within a stated time frame. Once the thesis project is completed, candidates must have a screening or exhibition of the work and meet with the thesis advisory committee for final approval and oral defense.

- FIL 6971 - Thesis **12 Credit Hours**

Equipment Fee

Students in the Feature Film Production MFA program pay a \$90 equipment fee each semester that they are enrolled. Courses containing a production element may charge an additional materials and equipment fee.

Independent Learning

A thesis is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be

submitted by the established deadline. Preference will be given to applicants who can demonstrate a strong production background by including evidence they have been the creative leader of completed short films.

In addition to the Admissions, applicants to this program must provide:

- One official transcript from each college/university attended.
- A BA or BFA in film production is preferred, however, degrees in the following areas are acceptable *if accompanied by a strong video portfolio*:
 - Animation
 - Art
 - Cinema Studies
 - Communication
 - English/Creative Writing
 - Game Design
 - Graphic Design
 - Illustration
 - Journalism
 - Photography
 - Radio/TV
- Personal Statement: In 750-words or less, provide an Artist's Statement that reflects your vision for a feature film, or equivalent body of cinematic work, that explains your preliminary plans for raising funds to support your microbudget production. Please describe how the critical thinking and technical expertise acquired in our program will support the successful execution of your vision.
- Portfolio: Submit 1 - 3 complete short films (each being 15 minutes or less) that the applicant has participated in as a principle creative collaborator (i.e. as writer, director, producer, director of photography, production designer, and/or editor).
 - Provide a document with links to YouTube, Vimeo, or similar platform.
 - All submitted online links to film samples must include:
 - The film's title
 - The applicant's role in the making of the film
 - The date the film was completed
 - Other materials in the portfolio may include, but are not limited to:
 - screenwriting samples, photography, documentation of work in other media, critical media analysis, and any other materials which reflect the applicant's experience with moving image scholarship and practice
- Writing Sample: Please submit one of the following writing samples for the film modality you wish to complete. *Admitted students may change modalities ONLY during their first two semesters of the program.*
 - Narrative Feature Film:
 - Provide a detailed written treatment for a proposed feature film.
 - Provide a script sample of another work that he/she has written.
 - The applicant does not have to be the author of the script that he/she plans to direct as the thesis film if accepted into the program. Students may use a script that is in the public domain and direct his/her interpretation of it, or someone else may write a script that the student will direct.
 - Documentary Feature Film:
 - Provide a detailed written treatment for a proposed feature documentary.
 - The treatment should define the subject of the film and how it addresses the following items and your professional goals:
 - Rationale/Thesis
 - Style
 - Content
 - Approach
 - Experimental Feature Film, Series of Short Films, or Body of Work:

- The detailed written treatment/proposal should describe the subject of the film and express the filmmaker's intentions regarding approach and style. The length of the treatment/proposal should reflect the scope of the project.
 - Rationale/Thesis
Address why this topic was selected and why this film should be made. This portion of the treatment/proposal should demonstrate the filmmaker's knowledge and sense of context for the significance of the work. It can also state a "challenge" or question - one the project will address, explore, or attempt to answer.
 - Approach
The filmmaker should express the style in which the film(s) or project will be made and how this style will enhance and express the nature of the subject and the meanings, thoughts, or impressions the filmmaker intends to reveal. The filmmaker may choose to describe specific techniques with shooting on film or video, or experimenting with other forms of cinematic digital media, that will form the basis of inquiry or aesthetic and technical exploration within the thesis project.
- Résumé
- Provide two letters of recommendation, with at least one from an industry professional or college/university professor.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only.

Please submit all materials, with the exception of official transcripts, electronically as part of the online application. Applicants may be asked to participate in an admissions interview.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program, and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool. **Applicants are encouraged to apply as early as possible due to limited cohort size. There is no guarantee qualified applicants will be admitted after the cohort has been filled.**

Application Deadlines

Feature Film Production	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	May 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through a limited number of competitive fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes

the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

NSCM Graduate Student Services Coordinator

nicholsongrad@ucf.edu

Telephone: 407-823-5595

Full-time Location: CMB 203, UCF Downtown

Part-time Location: NSCM 238, UCF Main Campus

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Theatre MFA

College: Arts and Humanities	Degree: MFA
Department: School of Performing Arts	
Program Websites: http://performingarts.cah.ucf.edu/study/#theatregrad/	
Graduate Program Handbook	

Program Description

The Theatre MFA program is currently not accepting applications for the Theatre for Young Audiences, Design, and Musical Theatre tracks. Please contact the program for more information.

The Theatre MFA program with tracks in Acting, Design, Themed Experience, Musical Theatre, and Theatre for Young Audiences is designed for students who demonstrate the artistic and intellectual capacity and evidence of professional promise to pursue careers in professional and academic theatre.

The program is a highly selective, rigorous, three-year professional training program emphasizing both theatre theory and practice. The MFA degree is rooted in the belief that classroom study and practical experience in the theatre are of equal and complementary value. The production aspect, therefore, is integrated into the curriculum because it is the principal means available for the coordination of all the elements of dramatic art. We seek to pursue all possible ways to fuse production responsibilities with classroom work effectively for the purpose of teaching and training.

Students, in addition to becoming highly trained theatre practitioners, must also demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. Toward this end, the department will recruit and develop graduate students who can serve, along with faculty and staff, as role models for undergraduate students whose BA and BFA programs of study are integrally connected with the graduate program.

Program Tracks

- Theatre MFA, Acting Track
- Theatre MFA, Theatre for Young Audiences Track
- Theatre MFA, Themed Experience Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Julia Listengarten PhD

Professor

julia.listengarten@ucf.edu

Telephone: 407-823-3858

Performing Arts Center (PAC) T220

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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finaid@ucf.edu
<http://finaid.ucf.edu>

Theatre MFA, Acting Track

College: Arts and Humanities	Degree: MFA
Department: School of Performing Arts	Option: Thesis
Program Websites: http://performingarts.cah.ucf.edu/study/#theatregrad/	
Graduate Program Handbook	

Track Description

The **Master of Fine Arts in Acting Track** is a NAST-accredited pre-professional actor training program. Through intensive practical and theoretical classwork and production experience, students are prepared physically and vocally as artists to succeed in this demanding profession.

The program is a highly selective, rigorous, three-year professional training program emphasizing both theatre theory and practice. The first two years are spent on campus in classes and performing in Theatre UCF productions. The third year is spent as a resident company member at Orlando Shakes where students perform in mainstage and theatre for young audience productions, teach, study and assist with the operations of the theatre.

Students, in addition to becoming highly trained theatre practitioners, must also demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. Toward this end, the department will recruit and develop graduate students who can serve, along with faculty and staff, as role models for undergraduate students whose BA and BFA programs of study are integrally connected with the graduate program.

Curriculum

The Acting track of the Theatre MFA program requires 47 credit hours of core and specialization courses that follow a suggested yearly schedule in addition to a thesis and an internship. The electives can be chosen (with instructor approval) from existing courses in the MFA tracks in Acting, Musical Theatre, Design, and Theatre for Young Audiences. Because allowed electives are both two- and three-credit-hour courses, the course of study shows a sliding number of credits for electives. Consequently, although the 61 credit hours are required, a student may graduate with as many as 65 credit hours.

Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor's Degree

Students must maintain a minimum "B" (3.0) overall Theatre grade point average to continue in the major. Theatre courses with grades of less than "C" will not be counted toward degree requirements. All Acting program students are required to audition for all fall and spring productions and must accept the roles assigned. A student's continuation in the program is contingent upon positive end-of-semester evaluations. Students must successfully complete internship and thesis requirements. The thesis proposal must be approved in advance.

Of the 61 hours required for the Acting track, the following courses constitute the MFA Graduate Core Curriculum. See the Course Schedule below for an understanding of how the curricular elements are articulated.

Required Courses: 47 Credit Hours

Core: 6 Credit Hours

- THE 5910 - Research Methods in Theatre **3 Credit Hours**
- TPP 5087C - Theatre Careers in Performance **3 Credit Hours**

Specialization: 41 Credit Hours

Shown below is the suggested course schedule.

Elective Courses

- TPP 6808 - Independent Study **1 credit hour**
- TPP 6686 - Playwriting for Young Audiences **3 Credit Hours**
- TPP 5246C - Circus Arts **2 Credit Hours**
- TPA 5885C - Puppetry **2 Credit Hours**
- TPP 5125C - Improvisation Studio **2 Credit Hours**
- TPP 5248C - Storytelling as a Theatrical Art Form **2 Credit Hours**

Thesis: 6 Credits

- THE 6971 - Thesis **6 Credit Hours**

Internship: 8 Credit Hours Minimum

- THE 6948 - Professional Internship **4 Credit Hours**

Course Schedule

Year 1

Fall: 10 Credit Hours

- TPP 5156C - Acting Studio I **3 Credit Hours**
- TPP 5515 - Movement Studio I **2 Credit Hours**
- TPP 5715C - Stage Voice I **2 Credit Hours**
- THE 5910 - Research Methods in Theatre **3 Credit Hours**

Spring: 11 Credit Hours

- TPP 5157C - Acting Studio II **3 Credit Hours**
- TPP 5516C - Movement Studio II **2 Credit Hours**
- TPP 5716C - Stage Voice II **2 Credit Hours**
- THE 5307 - Contemporary Theatre Practice **3 Credit Hours**
- TPP 5278C - Musical Theatre Lab **1 Credit Hours**

Year 2

Fall: 13 Credit Hours

- TPP 6146C - Acting Studio III **3 Credit Hours**
- TPP 6517 - Movement Studio III **2 Credit Hours**
- TPP 6717C - Stage Voice III **2 Credit Hours**
- THE 6507 - Dramatic Theory and Criticism **3 Credit Hours**
- TPP 5087C - Theatre Careers in Performance **3 Credit Hours**

Spring: 9 Credit Hours

- TPP 6518C - Movement Studio IV **2 Credit Hours**
- TPP 6718C - Stage Voice IV **2 Credit Hours**
- TPP 6267 - Acting Studio IV **2 Credit Hours**
- THE 5205 - American Theatre **3 Credit Hours**

Year 3

Fall: 9 Credit Hours

- THE 6948 - Professional Internship **4 Credit Hours**
- THE 6971 - Thesis **3 Credit Hours**
- TPP 6186C - Advanced Scene Study **2 Credit Hours**

Spring: 9 Credit Hours

- THE 6948 - Professional Internship **4 Credit Hours**
- THE 6971 - Thesis **3 Credit Hours**
- TPP 6933 - Acting Studio V **2 Credit Hours**

Transfer and Residency

Students who do not hold a master's degree can usually transfer up to nine semester hours into this program. Ordinarily, students holding completed MS or MA degrees will not be admitted into the MFA program. Each case will be evaluated on an individual basis. Final acceptance and number of credits to be transferred will be determined by a graduate faculty committee. A minimum of 51 credits must be taken at the University of Central Florida. A student without an earned master's degree must complete a residency requirement of at least five semesters with at least four of them being full-time, consecutive semesters. Summer session may be counted toward the four consecutive semesters.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A 3.0 Theatre GPA in previous study.
- An essay stating applicant's academic and professional goals.
- Résumé.
- An 8 X 10 headshot.
- Three letters of recommendation.
- An audition.
- Interview.
- Complete the general entrance and area-specific undergraduate prerequisites or their equivalents.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Auditions, Portfolio, and Interview Requirements:

- **MFA Acting** applicants are required to participate in an interview and perform two contrasting monologues. For more details about these requirements, contact the Theatre Department at theatre.cah.ucf.edu.

General Entrance and Area Specific Prerequisites -Students applying for entrance into the MFA Programs must have successfully completed the following undergraduate courses or their equivalent:

- **Acting** -Script Analysis or Play Analysis, Theatre History, Dramatic Literature, Stage Voice, Stage Movement, Acting.

- **Musical Theatre** -Fundamentals of Music, Acting I, Acting II, Musical Theatre Voice I, Musical Theatre Voice II are all recommended.
- **Design** -Script Analysis or Play Analysis, Directing I, Theatre History I and II, Dramatic Literature I and II, Stagecraft I, Stagecraft II, Theatre Drafting, 2D CADD, Scene Design I, Lighting Design I, Costume Construction, Costume Design I.
- **Theatre for Young Audiences** -Script Analysis or Play Analysis, Directing I, Theatre History or Dramatic Literature, as well as experience in some area of theatre and/or education.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

No part-time students will be admitted into the MFA program.

Application Deadlines

Acting MFA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Michael Wainstein MFA
 Professor
 Michael.Wainstein@ucf.edu

Telephone: 407-823-2519
Performing Arts Center (PAC) M255D

Julia Listengarten PhD

Professor
julia.listengarten@ucf.edu
Telephone: 407-823-3858
Performing Arts Center (PAC) T220

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Theatre MFA, Theatre for Young Audiences Track

College: Arts and Humanities	Degree: MFA
Department: School of Performing Arts	Option: Thesis
Program Websites: http://performingarts.cah.ucf.edu/study/#theatregrad/	
Graduate Program Handbook	

Track Description

We are not accepting applications for Fall 2022. Our next recruitment cycle begins in Spring 2023 for Fall 2023 admission.

The University of Central Florida offers one of the nation's most distinct graduate training programs in Theatre for Young Audiences. The program offers courses such as Puppetry, Storytelling and Methods of teaching Drama and the MFA in Theatre for Young Audiences is partnered with Orlando Repertory Theatre, a professional Theatre for Young Audiences in vibrant downtown Orlando.

The Master of Fine Arts in Theatre for Young Audiences track is designed for students who demonstrate the artistic and intellectual capacity and evidence of professional promise to pursue careers in professional and academic theatre. This track is for all theatre disciplines and offers opportunities to create work with and for youth, including community-based applied theatre, teaching artistry and education, devised theatre and directing.

The program is a highly selective, rigorous, three-year professional training program emphasizing both theatre theory and practice. The MFA degree is rooted in the belief that classroom study and practical experience in the theatre are of equal and complementary value.

Students, in addition to becoming highly trained theatre practitioners, must also demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. Toward this end, the department will recruit and develop graduate students who can serve, along with faculty and staff, as role models for undergraduate students whose BA and BFA programs of study are integrally connected with the graduate programs. Assistantships also offer students teaching opportunities in the theatre department.

Curriculum

The Theatre for Young Audiences track of the Theatre MFA program requires 6 credit hours of core courses and 26 credit hours of specialization courses to be completed following a yearly schedule in addition to a thesis and an internship. The electives can be chosen (with instructor approval) from existing courses in the MFA tracks in Acting and Theatre for Young Audiences. Because allowed electives are both two- and three-credit-hour courses, the course of study shows a sliding number of credits for electives. Consequently, although 61 credit hours are required, a student may graduate with as many as 65 credit hours. Students earning the degree are expected to demonstrate proficiency in their area of specialization.

Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—32 Credit Hours

Core—6 Credit Hours

- THE 5910 - Research Methods in Theatre **3 Credit Hours**
- THE 6086C - Careers in Professional Theatre **3 Credit Hours**

Specialization—26 Credit Hours

- THE 6756 - Methods of Teaching Drama **3 Credit Hours**
- THE 5385 - Dramatic Literature for Children **3 Credit Hours**
- TPA 5081C - Design Concepts for Youth Theatre **3 Credit Hours**
- TPP 5386C - Directing for Young Audiences **3 Credit Hours**
- THE 6726 - Advanced TYA Seminar **3 Credit Hours**
- TPP 5289C - Acting Methodologies **2 Credit Hours**
- THE 6507 - Dramatic Theory and Criticism **3 Credit Hours**
- TPP 6216C - Theatre for Young Audiences Tour **3 Credit Hours**
- TPP 6247 - Theatre for Social Change **3 Credit Hours**

Elective Courses—11 Credit Hours

- TPP 6686 - Playwriting for Young Audiences **3 Credit Hours**
- TPP 5246C - Circus Arts **2 Credit Hours**
- TPA 5885C - Puppetry **2 Credit Hours**
- TPP 5125C - Improvisation Studio **2 Credit Hours**
- TPP 5248C - Storytelling as a Theatrical Art Form **2 Credit Hours**
- TPP 5935C - Contemporary Practices in Youth Theatre **2 Credit Hours**

Thesis—6 Credit Hours

- THE 6971 Thesis **6 Credit Hours**

Internship—6-12 Credit Hours

The internship must be a minimum of 6 credits with the option of taking up to 12 credits. If students decide to only take the minimum 6 internship credits, the remaining 6 credits must be taken in the electives area.

Students must maintain a minimum "B" (3.0) overall Theatre grade point average to continue in the major. Theatre courses with grades of less than "C" will not be counted toward degree requirements. A student's continuation in the program is contingent upon a positive annual evaluation. Students must successfully complete an internship, present a written journal documenting their experience and a thesis project. The thesis proposal must be approved in advance.

- THE 6948 - Professional Internship **4 Credit Hours**

Examination

A comprehensive departmental Theatre exam is administered to the MFA students in the Theatre for Young Audiences Track at the end of their course work. The department allows two attempts at a comprehensive exam.

Transfer and Residency

Students who do not hold a master's degree can usually transfer up to nine semester hours into this program. Ordinarily, students holding completed MS or MA degrees will not be admitted into the MFA program. Each case will be evaluated on an individual basis. Final acceptance and number of credits to be transferred will be determined by a graduate faculty committee. A minimum of 51 credits must be taken at the University of Central Florida. A student without an earned master's degree must complete a residency requirement of at least five semesters with at least four of them being full-time, consecutive semesters. Summer session may be counted toward the four consecutive semesters.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Undergraduate degree in Theatre or equivalent.
- A 3.0 Theatre GPA.
- Official, competitive GRE score taken within the last five years.
- Essay stating applicant's academic and professional goals.
- Résumé.
- An 8 X 10 headshot.
- Three letters of recommendation.
- An audition.
- Interview.
- Complete the general entrance and area specific undergraduate prerequisites or their equivalents.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Auditions, Portfolio, and Interview Requirements:

- **MFA Theatre for Young Audiences** applicants are required to participate in an onsite interview and students must either audition (perform two contrasting monologues, not to exceed three minutes total) or give a creative presentation.

For more details about these requirements, contact the Theatre Department at www.theatre.cah.ucf.edu.

General Entrance and Area Specific Prerequisites—Students applying for entrance into the MFA Programs must have successfully completed the following undergraduate courses or their equivalent:

- **Acting**—Script Analysis or Play Analysis, Directing I, Theatre History or Dramatic Literature, Stage Voice, Stage Movement, Advanced Acting.
- **Musical Theatre**—Fundamentals of Music, Acting I, Acting II, Musical Theatre Voice I, Musical Theatre Voice II are all recommended.

- **Design**—Script Analysis or Play Analysis, Directing I, Theatre History I and II, Dramatic Literature I and II, Stagecraft I, Stagecraft II, Theatre Drafting, 2D CADD, Scene Design I, Lighting Design I, Costume Construction, Costume Design I.
- **Theatre for Young Audiences**—Script Analysis or Play Analysis, Directing I, Theatre History or Dramatic Literature, as well as experience in some area of theatre and/or education.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

No part-time students will be admitted into the MFA program.

Application Deadlines

Theatre for Young Audiences MFA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Vandy Wood

Associate Professor

vandy@ucf.edu

Telephone: 407-823-2862

Performing Arts Center (PAC) T235

Julia Listengarten PhD

Professor
julia.listengarten@ucf.edu
Telephone: 407-823-3858
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Graduate Admissions

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<http://finaid.ucf.edu>

Theatre MFA, Themed Experience Track

College: Arts and Humanities	Degree: MFA
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Department: School of Performing Arts	Option: Thesis
Program Websites: http://performingarts.cah.ucf.edu/study/#theatregrad/	

Track Description

The Master of Fine Arts in Theatre offers a Themed Experience Track designed to teach the unique creative skills, processes and concepts utilized to design and produce themed environments such as theme parks, zoos, aquariums, themed retail, dining, museums, virtual worlds and exhibitions. This program will build upon the strength and diversity of UCF's Theatre, Art, Design and Hospitality programs as well as the ideal location in Orlando, the international hub of the themed entertainment industry.

Curriculum

The Master of Fine Arts in Themed Experience track program offers a rigorous course of study of 61 credit hours minimum, culminating in a collaborative creative project and thesis as well as an industry or academic internship. Of the 61 credit hours required for the degree, 44-47 credit hours are required and core courses of which up to 12-15 credit hours are electives. There is a 6 credit hour thesis project and 8-11 hours of industry internship credits.

Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor's Degree

Candidates must demonstrate the ability to understand the conceptual basis of the themed experience and to be able to articulate that understanding to others. Students are expected to select the Themed Experience track when applying for the program.

Students must maintain a minimum "B" (3.00) overall Theatre GPA to continue in the major. All graduate course work must be at the 5000 level or above. Theatre courses with grades of less than "C" will not be counted toward degree requirements. Continuation in the MFA program requires a positive annual evaluation. All graduate students must consult with an area adviser. All MFA students must successfully complete a creative thesis project. The thesis project must be approved in advance.

Required Courses: 44-47 Credit Hours

Core: 6 Credit Hours

- THE 5910 - Research Methods in Theatre **3 Credit Hours**
- TPA 6437 - Careers in Themed Experience **3 Credit Hours**

Themed Experience Concentration: 26 Credit Hours

- THE 5288 - Period Costumes, Architecture and Decor I **3 Credit Hours**
- THE 5289 - Period Costumes, Architecture and Decor II **3 Credit Hours**
- THE 5945L - Theatre Practicum I **1 Credit Hours**
- TPA 6187 - Themed Experience Seminar **3 Credit Hours**
- TPA 5085C - Design Seminar for Theatre **2 Credit Hours**
- TPA 6158 - Small Project Studio **3 Credit Hours**
- TPA 6186 - Immersive Experience Studio **3 Credit Hours**

- TPA 6188 - Visualizing Themed Environments **3 Credit Hours**
- TPA 6921 - Collaborative Project Studio **3 Credit Hours**
- TPP 5248C - Storytelling as a Theatrical Art Form **2 Credit Hours**

Elective Courses: 12-15 Credit Hours

Choose 2 College of Arts and Humanities electives and 2 Rosen College of Hospitality electives

- HMG Themed Entertainment Graduate courses (6 credit hours total)
- CAH Graduate level courses (6 credit hours total)

Any other graduate-level courses may be permitted with school approval.

Internship: 8-11 Credit Hours

While the preference is a minimum of 11 credit hours, students may take as few as 8 credit hours of internship with permission of the program coordinator, the remaining credits required for the degree may be taken as additional CAH or HMG electives. For Themed Experience professional guidelines and forms [click here](#).

Thesis: 6 Credit Hours

- THE 6971 - Thesis **Credit Hours**

Course Schedule

Year 1

Fall: 11 Credit Hours

- THE 5288 - Period Costumes, Architecture and Decor I **3 Credit Hours**
- THE 5910 - Research Methods in Theatre **3 Credit Hours**
- TPA 5085C - Design Seminar for Theatre **2 Credit Hours**
- TPA 6187 - Themed Experience Seminar **3 Credit Hours**

Spring: 9-10 Credit Hours

THE 5945L Theatre Practicum I may be taken either Year 1 or 2 of the spring semester.

- THE 5289 - Period Costumes, Architecture and Decor II **3 Credit Hours**
- THE 5945L - Theatre Practicum I **1 Credit Hours**
- TPA 6158 - Small Project Studio **3 Credit Hours**
- TPA 6188 - Visualizing Themed Environments **3 Credit Hours**

Year 2

Fall: 11 Credit Hours

- TPP 5248C - Storytelling as a Theatrical Art Form **2 Credit Hours**

- TPA 6186 - Immersive Experience Studio **3 Credit Hours**
- CAH or HMG Graduate Elective **3 Credit Hours**
- CAH or HMG Graduate Elective **3 Credit Hours**

Spring: 9-10 Credit Hours

THE 5945L Theatre Practicum I may be taken either Year 1 or 2 of the spring semester.

- THE 5945L - Theatre Practicum I **1 Credit Hours**
- TPA 6437 - Careers in Themed Experience **3 Credit Hours**
- TPA 6921 - Collaborative Project Studio **3 Credit Hours**
- CAH or HMG Graduate Elective **3 Credit Hours**

Year 3

Fall: 9-13 Credit Hours

- THE 6971 - Thesis **Credit Hours 3**

Spring: 3-13 Credit Hours

- THE 6971 - Thesis **Credit Hours 3**

Critique and Evaluation

A final critique and evaluation of creative work is administered to all MFA majors at the end of their course work. The department allows two attempts at the final critique and evaluation.

Transfer and Residency

Students who do not hold a master's degree can usually transfer up to nine semester hours into this program. Ordinarily, students holding completed MS or MA degrees will not be admitted into the MFA program. Each case will be evaluated on an individual basis. Final acceptance and number of credits to be transferred will be determined by a graduate faculty committee. A minimum of 51 credits must be taken at the University of Central Florida. A student without an earned master's degree must complete a residency requirement of at least five semesters with at least four of them being full-time, consecutive semesters. Summer session may be counted toward the four consecutive semesters.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor's degree (BFA, BA, BS).
- A 3.0 GPA.
- A 500-750 word statement of interest.
- Three letters of recommendation.
- Portfolio comprised of visual art and design or creative written work. Work may be submitted in the video, digital images of artwork or writing samples. Consult the admissions committee if there are questions regarding format and appropriate submissions.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more details about these requirements, contact the Theatre Department at www.theatre.cah.ucf.edu.

General Entrance and Area Specific Prerequisites -Students applying for entrance into the MFA Programs must have successfully completed a regionally accredited bachelor's degree program. Concentration or experience in the visual, written, or performing arts is preferred.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Themed Experience MFA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Apr 1		
International Applicants		Jan 15		
FALL DOMESTIC DEADLINE EXTENDED TO JULY 1.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Peter Weishar

Professor and Director of Themed Experience
Peter.Weishar@ucf.edu
Telephone: 407-823-0987
Performing Arts Center (PAC) T216

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

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UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Master

Accounting MSA ♦♦

College: Business Administration	Degree: MSA
Department: Kenneth G. Dixon School of Accounting	Option: Nonthesis
Program Websites: http://business.ucf.edu/degree/accounting-msa/	
Graduate Program Handbook	

Program Description

The Kenneth G. Dixon School of Accounting offers a Master of Science in Accounting (MSA) degree with a choice of specialization in either Assurance, Management, or Taxation. These programs prepare individuals for careers as professional accountants and consultants in public accounting industry, financial institutions, government, and nonprofit organizations.

Faculty members in the Kenneth G. Dixon School of Accounting emphasize independent learning in various ways throughout the MSA program. Cases and research projects that involve work outside the classroom are incorporated into all courses. The cases and projects are both individual and team prepared. Students are asked to do research that requires they utilize the library, internet, and resources other than the material provided by the professor. The results of independent research activity are presented in either a written report, case analysis or oral presentation. Students work to develop and enhance skills and competencies that will support them professionally throughout their careers. The approaches used in our courses encourage students toward life-long learning.

The MSA degree, along with the appropriate prerequisite work from an undergraduate degree in accounting, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf>.

Program Tracks

- Accounting MSA, Assurance Track ♦
- Accounting MSA, Management Track ♦
- Accounting MSA, Taxation Track ♦

Curriculum

The MSA degree is awarded upon satisfactory completion of a minimum of 30 credit hours, and a final written comprehensive exam. In the total program of study, a minimum of 21 credit hours of the coursework must be completed in accounting, tax, or business law courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different admission requirements, start dates, and deadlines.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Elizabeth Altiero Poziemski PhD

Lecturer

altiero@ucf.edu

Telephone: 407-823-4420

BA 1 - 436

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Accounting MSA, Assurance Track ♦

College: Business Administration	Degree: MSA
Department: Kenneth G. Dixon School of Accounting	Option: Nonthesis
Program Websites: http://business.ucf.edu/degree/accounting-msa/	
Graduate Program Handbook	

Track Description

The Master of Science in Accounting (MSA), Assurance Track prepares individuals for careers as professional accountants and consultants in public accounting, industry, financial institutions, government, and nonprofit organizations. Students in this program will specialize in auditing and assurance skills used in a financial statement, compliance, internal control, and fraud contexts.

The Assurance Track, along with the appropriate undergraduate prerequisite work, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf>.

Foundation Prerequisite Courses

All business and accounting foundation core requirements can be completed after a student has gained admission to the program, but must be satisfied before graduate coursework can be undertaken. Applicants with a recent undergraduate accounting degree will likely have completed most, if not all, of the foundation prerequisite courses. Before taking any foundation courses, please have your undergraduate transcripts reviewed by the MSA Program Adviser.

Business Foundation Core—21 Credit Hours

The business foundation core is designed primarily to prepare students who hold a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) for the accounting foundation core and graduate MSA coursework.

- ACG 2021 - Financial Accounting **3 Credit Hours**
- ACG 2071 - Managerial Accounting **3 Credit Hours**
- ECO 2013 - Macroeconomics **3 Credit Hours**
- ECO 2023 - Microeconomics **3 Credit Hours**
- QMB 3003 - Quantitative Business Tools I **3 Credit Hours**
- QMB 3200 - Quantitative Business Tools II **3 Credit Hours**
- FIN 3403 - Business Finance **3 Credit Hours**

Accounting Foundation Core—24 Credit Hours

The accounting foundation core is designed primarily to prepare students who hold either a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) or an undergraduate business degree in a field other than accounting (e.g., finance, marketing, or management) for graduate MSA coursework.

- ACG 3131 - Intermediate Financial Accounting I **3 Credit Hours**
- ACG 3141 - Intermediate Financial Accounting II **3 Credit Hours**
- ACG 3361 - Cost Accounting I **3 Credit Hours**
- ACG 4401 - Accounting Information Systems **3 Credit Hours**
- ACG 4651 - Auditing **3 Credit Hours**
- ACG 4803 - Advanced Issues in Financial Accounting **3 Credit Hours**
- BUL 3130 - Legal and Ethical Environment of Business **3 Credit Hours**
- TAX 4001 - Taxation of Business Entities and Transactions **3 Credit Hours**

Curriculum

The MSA degree is awarded upon satisfactory completion of a minimum of 30 credit hours, and a final written exit exam. In the total program of study, a minimum of 21 credit hours of the coursework must be completed in accounting, tax, or business law courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—12 Credit Hours

- ACG 6185 - Financial Statement Analysis **3 Credit Hours**
- ACG 6415 - Advanced Accounting Information Systems **3 Credit Hours**
- ACG 6805 - Accounting Theory **3 Credit Hours**
- ACG 6835 - Ethics and Professionalism in Accounting and Auditing **3 Credit Hours**

Required Specialization Courses—6 Credit Hours

- ACG 6636 - Advanced Auditing **3 Credit Hours**
- ACG 6675 - Operational Auditing **3 Credit Hours**

Elective Specialization Course—3 Credit Hours

- ACG 6305 - Advanced Managerial Accounting **3 Credit Hours**
- ACG 6685 - Fraud Auditing **3 Credit Hours**
- TAX 5015 - Advanced Tax Topics **3 Credit Hours**

Restricted Elective Courses—9 Credit Hours

All tracks include 9 credit hours (3 courses) of restricted electives. MSA students can take additional ACG, TAX, or BUL courses as restricted electives (except for ACG 6425 and BUL 6444, which are not eligible for MSA credit). Most MBA electives may be taken as restricted electives. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to three hours may be selected from outside the College of Business. Courses outside the College of Business must be selected with the student's area of interest and/or career objectives in mind and with the approval of the program adviser.

Comprehensive Examination

Satisfactory completion of an end-of-program comprehensive written examination is required. The MSA program does not require a thesis.

Additional Program Requirements

Students must maintain a 3.0 GPA in the accounting foundation core. Students must earn a grade of "B-" (2.75) or higher in any undergraduate course taken after completion of the Bachelor's degree in order for that course to count as a prerequisite in or to fulfill an admissions requirements for the MSA degree.

5000-level courses taken in the undergraduate career that are used to earn the undergraduate accounting degree cannot be transferred into the MSA degree program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- 3.0 GPA in upper-division accounting and tax courses.
- Official, competitive GMAT score taken within the last five years.
- Résumé.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's

degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Letters of recommendation are not required.

Application Deadlines

Accounting MSA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
<p>*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. FALL DOMESTIC DEADLINE EXTENDED TO AUG 1</p>				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Elizabeth Altiero Poziemski PhD

Lecturer

altiero@ucf.edu

Telephone: 407-823-4420

BA 1 - 436

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

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UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Accounting MSA, Management Track ♦

College: Business Administration	Degree: MSA
Department: Kenneth G. Dixon School of Accounting	Option: Nonthesis
Program Websites: http://business.ucf.edu/degree/accounting-msa/	

Program Description

The Master of Science in Accounting (MSA), Management Track prepares individuals for careers as professional accountants and consultants in public accounting, industry, financial institutions, government, and nonprofit organizations. Students in this program will specialize in the use of accounting data to make managerial decisions, monitor operations, manage an effective control environment, and design effective compensation systems.

The Management Track, along with the appropriate undergraduate prerequisite work, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf>.

Foundation Prerequisite Courses

All business and accounting foundation core requirements can be completed after a student has gained admission to the program, but must be satisfied before graduate MSA coursework can be undertaken. Applicants with a recent undergraduate accounting degree will likely have completed most, if not all, of the foundation prerequisite courses. Before taking any foundation courses, please have your undergraduate transcripts reviewed by the MSA Program Adviser.

Business Foundation Core—21 Credit Hours

The business foundation core is designed primarily to prepare students who hold a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) for the accounting foundation core and graduate MSA coursework.

- ACG 2021 - Financial Accounting **3 Credit Hours**
- ACG 2071 - Managerial Accounting **3 Credit Hours**
- ECO 2013 - Macroeconomics **3 Credit Hours**
- ECO 2023 - Microeconomics **3 Credit Hours**
- QMB 3003 - Quantitative Business Tools I **3 Credit Hours**
- QMB 3200 - Quantitative Business Tools II **3 Credit Hours**
- FIN 3403 - Business Finance **3 Credit Hours**

Accounting Foundation Core—24 Credit Hours

The accounting foundation core is designed primarily to prepare students who hold either a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) or an undergraduate business degree in a field other than accounting (e.g., finance, marketing, or management) for graduate MSA coursework.

- ACG 3131 - Intermediate Financial Accounting I **3 Credit Hours**
- ACG 3141 - Intermediate Financial Accounting II **3 Credit Hours**
- ACG 3361 - Cost Accounting I **3 Credit Hours**
- ACG 4401 - Accounting Information Systems **3 Credit Hours**
- ACG 4651 - Auditing **3 Credit Hours**
- ACG 4803 - Advanced Issues in Financial Accounting **3 Credit Hours**
- BUL 3130 - Legal and Ethical Environment of Business **3 Credit Hours**

- TAX 4001 - Taxation of Business Entities and Transactions **3 Credit Hours**

Curriculum

The MSA degree is awarded upon satisfactory completion of a minimum of 30 credit hours, and a final written exit exam. In the total program of study, a minimum of 21 credit hours of the coursework must be completed in accounting, tax, or business law courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—12 Credit Hours

- ACG 6185 - Financial Statement Analysis **3 Credit Hours**
- ACG 6415 - Advanced Accounting Information Systems **3 Credit Hours**
- ACG 6805 - Accounting Theory **3 Credit Hours**
- ACG 6835 - Ethics and Professionalism in Accounting and Auditing **3 Credit Hours**

Required Specialization Courses—6 Credit Hours

- ACG 6305 - Advanced Managerial Accounting **3 Credit Hours**
- ACG 6675 - Operational Auditing **3 Credit Hours**

Elective Specialization Course-3 Credit Hours

- BUL 5332 - Advanced Business Law Topics **3 Credit Hours**
- TAX 5015 - Advanced Tax Topics **3 Credit Hours**

Restricted Elective Courses—9 Credit Hours

All tracks include 9 credit hours (3 courses) of restricted electives. MSA students can take additional ACG, TAX, or BUL courses as restricted electives (except for ACG 6425 and BUL 6444, which are not eligible for MSA credit). Most MBA electives may be taken as restricted electives. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to three hours may be selected from outside the College of Business. Courses outside the College of Business must be selected with the student's area of interest and/or career objectives in mind and with the approval of the program adviser.

Comprehensive Examination

Satisfactory completion of an end-of-program comprehensive written examination is required. The MSA program does not require a thesis.

Additional Program Requirements

Students must maintain a 3.0 GPA in the accounting foundation core. Students must earn a grade of "B-" (2.75) or higher in any undergraduate course taken after completion of the Bachelor's degree in order for that course to count as a prerequisite in or to fulfill an admissions requirements for the MSA degree.

5000-level courses taken in the undergraduate career that are used to earn the undergraduate accounting degree cannot be transferred into the MSA degree program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- 3.0 GPA in upper-division accounting and tax courses.
- Official, competitive GMAT score taken within the last five years.
- Résumé.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Letters of recommendation are not required.

Application Deadlines

Accounting MSA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. FALL DOMESTIC DEADLINE EXTENDED TO AUG 1				

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Contact Info

Graduate Program

Elizabeth Altiero Poziemski PhD

Lecturer

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Telephone: 407-823-4420

BA 1 - 436

Graduate Admissions

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Millican Hall 230

Online Application

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GMAT: RZT-HT-58

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Accounting MSA, Taxation Track ♦

College: Business Administration	Degree: MSA
Department: Kenneth G. Dixon School of Accounting	Option: Nonthesis
Program Websites: http://business.ucf.edu/degree/accounting-msa/	
Graduate Program Handbook	

Program Description

The Master of Science in Accounting (MSA), Taxation Track prepares individuals for careers as professional accountants and consultants in public, accounting industry, financial institutions, government, and nonprofit organizations. Students in this program will specialize in tax preparation, compliance, and research skills.

The Taxation Track, along with the appropriate undergraduate prerequisite work, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf>.

Foundation Prerequisite Courses

All business and accounting foundation core requirements can be completed after a student has gained admission to the program, but must be satisfied before graduate MSA coursework can be undertaken. Applicants with a recent undergraduate accounting degree will likely have completed most, if not all, of the foundation prerequisite courses. Before taking any foundation courses, please have your undergraduate transcripts reviewed by the MSA Program Adviser.

Business Foundation Core—21 Credit Hours

The business foundation core is designed primarily to prepare students who hold a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) for the accounting foundation core and graduate MSA coursework.

- ACG 2021 - Financial Accounting **3 Credit Hours**
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- ECO 2013 - Macroeconomics **3 Credit Hours**
- ECO 2023 - Microeconomics **3 Credit Hours**
- QMB 3003 - Quantitative Business Tools I **3 Credit Hours**
- QMB 3200 - Quantitative Business Tools II **3 Credit Hours**
- FIN 3403 - Business Finance **3 Credit Hours**

Accounting Foundation Core—24 Credit Hours

The accounting foundation core is designed primarily to prepare students who hold either a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) or an undergraduate business degree in a field other than accounting (e.g., finance, marketing, or management) for graduate MSA coursework.

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- ACG 4651 - Auditing **3 Credit Hours**
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- TAX 4001 - Taxation of Business Entities and Transactions **3 Credit Hours**

Curriculum

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- ACG 6805 - Accounting Theory **3 Credit Hours**
- ACG 6835 - Ethics and Professionalism in Accounting and Auditing **3 Credit Hours**

Required Specialization Courses—9 Credit Hours

- TAX 5015 - Advanced Tax Topics **3 Credit Hours**
- TAX 6065 - Tax Research **3 Credit Hours**
- TAX 6845 - Tax Planning and Consulting **3 Credit Hours**

Restricted Elective Courses—9 Credit Hours

All tracks include 9 credit hours (3 courses) of restricted electives. MSA students can take additional ACG, TAX, or BUL courses as restricted electives (except for ACG 6425 and BUL 6444, which are not eligible for MSA credit). Most MBA electives may be taken as restricted electives. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to three hours may be selected from outside the College of Business. Courses outside the College of Business must be selected with the student's area of interest and/or career objectives in mind and with the approval of the program adviser.

Comprehensive Examination

Satisfactory completion of an end-of-program comprehensive written examination is required. The MSA program does not require a thesis.

Additional Program Requirements

Students must maintain a 3.0 GPA in the accounting foundation core. Students must earn a grade of "B-" (2.75) or higher in any undergraduate course taken after completion of the Bachelor's degree in order for that course to count as a prerequisite in or to fulfill an admissions requirements for the MSA degree.

5000-level courses taken in the undergraduate career that are used to earn the undergraduate accounting degree cannot be transferred into the MSA degree program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- 3.0 GPA in upper-division accounting and tax courses.
- Official, competitive GMAT score taken within the last five years.
- Résumé.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Accounting MSA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
<p>*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. FALL DOMESTIC DEADLINE EXTENDED TO AUG 1</p>				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Elizabeth Altiero Poziemski PhD

Lecturer

altiero@ucf.edu

Telephone: 407-823-4420

BA 1 - 436

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Aerospace Engineering MSAE ►

College: Engineering and Computer Science	Degree: MSAE
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Aerospace Engineering (MSAE) is designed to prepare students for careers as engineers in aerospace.

Students may choose from three tracks: Accelerated BS to MSAE, Space Systems Design and Engineering, and Thermofluid Aerodynamic Systems Design and Engineering.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf>.

Program Tracks

- Aerospace Engineering MSAE, Accelerated BS to MSAE Track
- Aerospace Engineering MSAE, Space Systems Design and Engineering Track ►
- Aerospace Engineering MSAE, Thermofluid Aerodynamic Systems Design and Engineering Track ►

Curriculum

The MSAE is awarded upon completion of a minimum of 30 credit hours. Students of the program must select a thesis or nonthesis option. All students are expected to identify an adviser and file an official degree program of study prior to the completion of nine semester hours of study. At least one-half of the required credits must be taken at the 6000 level. Students should consult the Graduate Director for assistance.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The program offers three tracks: Space Systems Design and Engineering, Thermofluid Aerodynamic Systems Design and Engineering, and Accelerated BS to MSAE. Students must be pursuing a track within the discipline. The MSAE is awarded upon completion of a minimum of 30 credit hours, which includes 12 credit hours of required courses, 6 credit hours of specialization, 6-9 credit hours of electives and depending on whether a student selects a thesis or nonthesis option. Thesis option students will be required a minimum of 6 credit hours and nonthesis students will be required to take the course EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EML 6918 Directed Research and make a presentation on a chosen topic before a committee of faculty members.

All students are expected to identify an adviser and file an official degree program of study prior to the completion of nine semester hours of study. At least one-half of the required credits must be taken at the 6000 level. Students should consult the Graduate Director for assistance.

For the Accelerated track, the BSAE is awarded after completion of 71 hours of engineering courses and all other university requirements, and the MSAE is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department. More information is available at the department website listed above.

Thesis Option

The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar of the College of Graduate Studies website at least two weeks before the defense date.

Nonthesis Option

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. In addition, students pursuing the nonthesis option are required to take EML 6085 - Research Methods in Mechanical and Aerospace Engineering as part of their 30-credit-hour course requirement. For students who are not on campus and upon prior approval from the graduate coordinator, EAS 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EAS 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

MAE Department Graduate Seminar Requirement

The MAE Graduate seminar is a zero credit hour course (S/U) that is offered each Fall and Spring academic semesters. All MAE graduate students who are pursuing the MSME are required to register, participate, and receive a satisfactory (S) grade for two semesters of MAE Graduate seminar prior to graduation.

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. The non-thesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, EAS 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EAS 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Aerospace Engineering or closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor
jihua.gou@ucf.edu
Telephone: 407-823-2155
ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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finaid@ucf.edu
<http://finaid.ucf.edu>

Aerospace Engineering MSAE, Accelerated BS to MSAE Track

College: Engineering and Computer Science	Degree: MSAE
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Accelerated BS to MS track in the Aerospace Engineering MSAE program allows highly qualified undergraduate students in Aerospace Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf>.

Curriculum

The BSAE is awarded after completion of 128 total undergraduate student credit hours including 71 hours of engineering courses and all other university requirements, and the MSAE is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Up to 12 credit hours of approved 5000- and 6000-level courses of grades "B" (3.0) or better may be counted toward the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Aerospace Engineering:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "B" (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major.

Undergraduate Requirements

Please see the current edition of the Undergraduate Catalog and the College of Engineering website listed above for additional information about academics and accelerated programs.

Graduate Requirements

For thesis option students, at least 18 credit hours beyond the 12 credit hours counted toward the undergraduate degree are required and must include 6 credit hours of thesis (EAS 6971); for the nonthesis option, the 18 credit hours need to include either EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours) or EML 6918 Directed Research (3 credit hours). The remaining credit hours can be selected from courses from other tracks. Accelerated Aerospace students must declare their interest in either the Space Systems Design and Engineering Track or the Thermofluid Aerodynamic Systems Design and Engineering Track by completing a Program of Study with their adviser.

Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

Additionally, all students pursuing the thesis option must enroll in the following course:

- EML 5936 - Mechanical and Aerospace Seminar **0 Credit Hours**

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a \$90 equipment fee each semester that they are enrolled.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or EML 6085 - Research Methods in Mechanical and Aerospace Engineering. The nonthesis option independent learning experience is provided by the required course EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, EAS 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EAS 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The **Accelerated BS to MS program** in Aerospace Engineering allows highly qualified University of Central Florida undergraduate majors in Aerospace Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year directly through the College of Engineering and Computer Science. If accepted, student's will complete the University Graduate application when they are ready to enroll as a full-time graduate student. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to either the **Space Systems Design and Engineering or Thermofluid Aerodynamic Systems Design and Engineering Track** instead. Additional information about this track may be located at: <http://www.cecs.ucf.edu/current-students/bs-ms-program/>.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Aerospace Engineering or closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Application Deadlines

Accelerated BS to MSAE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
This track is available to University of Central Florida undergraduate majors in Aerospace Engineering only.				
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

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<http://finaid.ucf.edu>

Aerospace Engineering MSAE, Guidance Control and Dynamics Track ► ◆

College: Engineering and Computer Science	Degree: MSAE
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Master of Science in Guidance, Control and Dynamics (MSAE) is designed to prepare students for careers as engineers in the aerospace industry. The curriculum is developed with strong emphasis in courses related to guidance control and dynamics with applications in aerospace engineering.

Please note: Aerospace Engineering (MSAE) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf>.

Curriculum

The MSAE is awarded upon completion of a minimum of 30 credit hours, including 9 credit hours of required courses, 15 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MMAE Graduate Director for assistance in filling out their program of study.

A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department.

Please Note: Aerospace Engineering MSAE, Guidance Control and Dynamics Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Prerequisites (or equivalent)

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering
- EAS 4134 - High-Speed Aerodynamics

- EAS 4105 - Flight Mechanics **or**

- EAS 4400 - Spacecraft Attitude Dynamics
- EAS 4200 - Flight Structures **or**
- EAS 4210 Space Structural Dynamics

Required Courses—9 Credit Hours

- EML 5271 - Intermediate Dynamics **3 Credit Hours**
- EEL 5630 - Digital Control Systems **3 Credit Hours**

Select one of the following courses:

- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EML 5311 - System Control **3 Credit Hours**

Elective Courses—15 Credit Hours

All students, both thesis and nonthesis, must complete at least 12 credit hours of electives. The following list are suggested electives to be taken in the program of study.

- EAS 6403C - Attitude Determination and Control **3 Credit Hours**
- EAS 6415 - Guidance, Navigation and Control **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EEL 5432 - Satellite Remote Sensing **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**
- EAS 6507 - Topics of Astrodynamics **3 Credit Hours**
- EAS 5407C - Mechatronic Systems **3 Credit Hours**
- EAS 6405 - Advanced Flight Dynamics **3 Credit Hours**
- EAS 6414 - Estimation of Dynamical Systems in Aerospace Engineering **3 Credit Hours**
- EAS 6722 - Multidisciplinary Optimization Under Uncertainty **3 Credit Hours**
- EEL 5625 - Applied Control Systems **3 Credit Hours**
- EEL 5669 - Introduction to Robotics and Autonomous Vehicles **3 Credit Hours**
- EEL 5690 - Medical Robotics **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- EEL 6026 - Optimization of Engineering Systems **3 Credit Hours**
- EEL 6616 - Adaptive Control **3 Credit Hours**
- EEL 6619 - Nonlinear Robust Control and Applications **3 Credit Hours**
- EEL 6621 - Nonlinear Control Systems **3 Credit Hours**
- EEL 6662 - Advanced Robotics **3 Credit Hours**
- EEL 6667 - Mobile Robotic Systems **3 Credit Hours**
- EEL 6671 - Modern and Optimal Control Systems **3 Credit Hours**
- EEL 6674 - Optimal Estimation for Control **3 Credit Hours**
- EEL 6675 - Stochastic Control **3 Credit Hours**
- EEL 6683 - Cooperative Control of Networked Autonomous Systems **3 Credit Hours**
- EEL 6812 - Introduction to Neural Networks **3 Credit Hours**

- EEL 6875 - Autonomous Agents **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EML 6223 - Advanced Vibrational Systems **3 Credit Hours**
- EML 6226 - Analytical Dynamics **3 Credit Hours**
- EML 6227 - Nonlinear Vibration **3 Credit Hours**
- EML 6808 - Analysis and Control of Robot Manipulators **3 Credit Hours**

Thesis Option—6 Credit Hours

The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

Students must register for the course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

- EAS 6971 Thesis **6 Credit Hours**

Additionally, students pursuing the thesis option must enroll in the following course:

- EML 5090 - Mechanical and Aerospace Seminar **0 Credit Hours**

Nonthesis Option—6 Credit Hours

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. Students pursuing the nonthesis option are required to take one additional elective and take either EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918 Directed Research, with approval)* as part of their 30-credit-hour course requirement.

*For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

EML 6085 and XXX 6918 fulfill the independent learning requirement and either course is required for nonthesis students.

- Elective **3 Credit Hours**
- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a \$90 equipment fee each semester that they are enrolled.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval

from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Aerospace Engineering or closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Application Deadlines

Guidance Control and Dynamics	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Aug 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

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Aerospace Engineering MSAE, Space Systems Design and Engineering Track ►

College: Engineering and Computer Science	Degree: MSAE
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Master of Science in Space Systems Design and Engineering (MSAE) is designed to prepare students for careers as engineers in aerospace. The program includes the fields of controls and dynamics, space environment, instrumentation and communications, structures and materials, thermal analysis, and design.

Please note: Aerospace Engineering (MSAE) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf>.

Curriculum

The MSAE is awarded upon completion of a minimum of 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MMAE Graduate Director for assistance in filling out their program of study.

A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department.

Prerequisites (or equivalent)

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering
- EAS 4134 - High-Speed Aerodynamics

- EAS 4105 - Flight Mechanics **or**
- EAS 4400 - Spacecraft Attitude Dynamics

- EAS 4200 - Flight Structures **or**
- EAS 4210 Space Structural Dynamics

Required Courses—12 Credit Hours

- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5271 - Intermediate Dynamics **3 Credit Hours**
- EML 5311 - System Control **3 Credit Hours**

Select one of the following courses:

- EML 5152 - Intermediate Heat Transfer **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**

Elective Courses—12 Credit Hours

All students, both thesis and nonthesis, must complete at least 12 credit hours of electives. The following list are suggested electives to be taken in the program of study.

- EAS 6403C - Attitude Determination and Control **3 Credit Hours**
- EAS 6415 - Guidance, Navigation and Control **3 Credit Hours**
- EEL 6616 - Adaptive Control **3 Credit Hours**
- EEL 6621 - Nonlinear Control Systems **3 Credit Hours**
- EML 5152 - Intermediate Heat Transfer **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**
- EML 6223 - Advanced Vibrational Systems **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 6155 - Convection Heat Transfer **3 Credit Hours**
- EML 6157 - Radiation Heat Transfer **3 Credit Hours**
- EAS 6808 - Space Environment and Payload Instrumentation **3 Credit Hours**
- EEL 5432 - Satellite Remote Sensing **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**

Thesis Option—6 Credit Hours

The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

Students must register for the course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

- EAS 6971 Thesis **6 Credit Hours**

Additionally, students pursuing the thesis option must enroll in the following course:

- EML 5090 - Mechanical and Aerospace Seminar **0 Credit Hours**

Nonthesis Option—6 Credit Hours

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. Students pursuing the nonthesis option are required to take one additional elective and take either EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918 Directed Research, with approval)* as part of their 30-credit-hour course requirement.

*For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

EML 6085 and XXX 6918 fulfill the independent learning requirement and either course is required for nonthesis students.

- Elective **3 Credit Hours**
- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a \$90 equipment fee each semester that they are enrolled.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Aerospace Engineering or closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Application Deadlines

Space Systems Design and Engineering	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor
jihua.gou@ucf.edu
Telephone: 407-823-2155
ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

**Aerospace Engineering MSAE, Thermofluid Aerodynamic
Systems Design and Engineering Track ►**

College: Engineering and Computer Science	Degree: MSAE
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Thermofluid Aerodynamics Systems Design and Engineering track in the Aerospace Engineering MSAE program is designed to prepare students for careers as engineers in aerospace. The program includes the fields of controls and dynamics, aerodynamics, propulsion, thermal analysis, and design.

Please note: Aerospace Engineering (MSAE) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf>.

Curriculum

The MSAE is awarded upon completion of a minimum of 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MMAE Graduate Director for assistance in filling out their program of study. Both thesis and nonthesis options require 30 credit hours of courses and at least half of the credit hours in the program of study must be at the 6000 level.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department.

Prerequisites (or equivalent)

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering

- EAS 4134 - High-Speed Aerodynamics
- EAS 4105 - Flight Mechanics or
- EAS 4400 - Spacecraft Attitude Dynamics
- EAS 4200 - Flight Structures or
- EAS 4210 Space Structural Dynamics

Required Courses—12 Credit Hours

- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5152 - Intermediate Heat Transfer **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**

Select one of the following courses:

- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5271 - Intermediate Dynamics **3 Credit Hours**
- EML 5311 - System Control **3 Credit Hours**

Elective Courses—12 Credit Hours

All students, both thesis and nonthesis, must complete at least 12 hours of electives from the list below after conferring with their adviser.

- EAS 5123 - Intermediate Aerodynamics **3 Credit Hours**
- EAS 6185 - Turbulent Flow **3 Credit Hours**
- EAS 5315 - Rocket Propulsion **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**
- EML 6131 - Combustion Phenomena **3 Credit Hours**
- EML 6725 - Computational Fluid Dynamics and Heat Transfer I **3 Credit Hours**
- EAS 5302 - Direct Energy Conversion **3 Credit Hours**
- EAS 6807C - Aerospace Measurements Instrumentation **3 Credit Hours**
- EML 6124 - Two-Phase Flow **3 Credit Hours**
- EML 6726 - Computational Fluid Dynamics and Heat Transfer II **3 Credit Hours**
- EML 6154 - Conduction Heat Transfer **3 Credit Hours**
- EML 6157 - Radiation Heat Transfer **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5532C - Computer-Aided Design for Manufacture **3 Credit Hours**
- EML 5546 - Engineering Design with Composite Materials **3 Credit Hours**
- EML 6547 - Engineering Fracture Mechanics in Design **3 Credit Hours**

Thesis Option—6 Credit Hours

The thesis option requires 6 credit hours of thesis in addition to the required and elective courses listed above. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

- EAS 6971 - Thesis **6 Credit Hours**

Additionally, all students pursuing the thesis option must enroll in the following course:

- EML 5090 - Mechanical and Aerospace Seminar **0 Credit Hours**

Nonthesis Option—6 Credit Hours

The nonthesis option is primarily designed to meet the needs of part-time students and requires one additional elective and EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918 Directed Research, with approval)* as part of their 30-credit-hour course requirement.

* For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research.

EML 6085 (or XXX 6918) fulfills the independent learning requirement for nonthesis students.

- Elective **3 Credit Hours**
- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a \$90 equipment fee each semester that they are enrolled.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.

- Bachelor's degree in Aerospace Engineering or closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Application Deadlines

Thermofluid Aerodynamic Systems Design and Engineering	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD
 Professor
 jihua.gou@ucf.edu

Telephone: 407-823-2155
ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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Mailing Address
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Anthropology MA

College: Sciences	Degree: MA
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Department: Anthropology	Option: Thesis, Nonthesis
Program Websites: http://sciences.ucf.edu/anthropology/	
Graduate Program Handbook	

Program Description

The Department of Anthropology offers a graduate program leading to the Master of Arts degree in Anthropology. The course work in this program is conceptually three-field, with faculty strengths in archaeology, cultural anthropology, and biological anthropology. The department follows an apprenticeship model, and thus the MA student works directly under the supervision of their graduate adviser. Students are informed of who their graduate adviser is when they are admitted to the program. Visit the **Faculty Page** for the UCF Department of Anthropology for more information about our faculty. Students can choose to pursue a thesis or non-thesis option. Students in the program are prepared to enter doctoral programs or begin professional careers following the MA degree.

Degree-seeking students in the Anthropology MA program may elect to follow either a thesis or non-thesis plan of study. Each plan of study requires a minimum of 30 credit hours, 15 of which must be at the 6000-level. The thesis option is designed for students who plan to enter doctoral programs, while the non-thesis option is more appropriate for students entering or continuing profession careers following the MA degree.

The anthropology faculty conduct research in many geographical areas including Bolivia, Colombia, Egypt, Guatemala, Mexico, Peru, the Philippines, Turkey, the United States and various other locations in the Caribbean and Europe. The department also has multiple research facilities on the Orlando campus that including the following: an archaeology lab specializing in lithic and ceramic analysis, a forensic anthropology lab, a paleoethnobotany archaeology lab, a bioarchaeological sciences lab, and an interdisciplinary geospatial science lab. Students may have the opportunity to conduct research projects in the various countries or research facilities as part of their program.

Curriculum

Degree-seeking students in the Anthropology MA program may elect to follow either a thesis or a nonthesis program of study.

Both thesis and non-thesis options require 30 hours of course work, of which half must be at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The MA degree is conferred when students have fulfilled the requirements of either the thesis or nonthesis option. No graduate credit will be given for any grade lower than a B- (2.75), but the grade will be counted toward the GPA. Courses may be retaken to achieve a better grade; however, the unsatisfactory grade will remain on the transcript since there is no grade forgiveness at the graduate level. In order to stay in good academic standing, students must maintain a minimum Graduate Status GPA of 3.0 in all coursework taken since entering graduate status and a 3.0 in their program of study.

Together, the student and their advisors will determine the student's preliminary program of study, either in the thesis or nonthesis option. Students should maintain close contact with their faculty advisor in order to develop a viable program of study and avoid graduation delays.

Required Courses—12 Credit Hours

These courses provide an in-depth understanding of the epistemological foundations of the discipline. Students are introduced to the theory and practice of anthropology at a level of synthesis that will prepare them for future doctoral study should they wish to pursue it. These courses also establish the foundations of understanding that will prepare students for nonacademic careers that employ anthropological perspectives and knowledge.

- ANG 5094 - Writing in Anthropology **3 Credit Hours**
- ANG 6110 - Archaeological Theory and Method **3 Credit Hours**
- ANG 6587 - Seminar in Biological Anthropology **3 Credit Hours**
- ANG 6930 - Seminar in Cultural Anthropology **3 Credit Hours**

Elective Courses—12 Credit Hours

A minimum of 12 additional credit hours must be selected from the list below in conjunction with the faculty adviser and/or the advisory committee members and approved by the program graduate coordinator. Additional electives may be selected as they become available or as they are added to the course curriculum. With prior approval, the student may take one elective (3 credit hours) in another department.

Under special circumstances, students may enroll in a graduate-level Directed Independent Study course or a Directed Independent Research course to fulfill their non-required elective course requirements. No more than 6 hours of graduate-level courses in Directed Independent Study or Directed Independent Research may be included in a student's program of study.

- ANG 5166 - Problems in Maya Studies **3 Credit Hours**
- ANG 5228 - Maya Iconography **3 Credit Hours**
- ANG 5486 - Quantitative Research in Anthropology **3 Credit Hours**
- ANG 5742 - Problems in Forensic Anthropology **3 Credit Hours**
- ANG 5525C - Human Osteology **4 Credit Hours**
- ANG 6520C - Advanced Human Osteology **3 Credit Hours**
- ANG 6740C - Advanced Forensic Anthropology **3 Credit Hours**
- ANG 5307 - Peoples and Cultures of Latin America **3 Credit Hours**
- ANG 5531 - Nutritional Anthropology **3 Credit Hours**
- ANG 5738 - Advanced Medical Anthropology **3 Credit Hours**
- ANG 5822 - Maya Field Research **3 Credit Hours**
- ANG 5852 - GIS Methods in Anthropology **3 Credit Hours**
- ANG 5853 - Advanced GIS Methods in Anthropology **3 Credit Hours**
- ANG 6168 - The Ancient Maya **3 Credit Hours**
- ANG 6821 - Forensic Archeology Field Methods **3 Credit Hours**
- ANG 6181C - GIS Applications in Anthropology **3 Credit Hours**
- ANG 6324 - Contemporary Maya **3 Credit Hours**
- ANG 6701 - Public and Applied Anthropology **3 Credit Hours**
- ANG 6801 - Ethnographic Research Methods **3 Credit Hours**

Thesis Option—6 Credit Hours

The thesis and oral defense are the culmination of the course work for those students who have elected the thesis option. Students electing to write a thesis must select a Thesis Advisory Committee. The student's faculty advisor will chair the Thesis Advisory Committee. The committee will consist of three members. All members must be approved

graduate faculty as cited in the most current UCF Graduate Catalog. Qualified individuals from outside the Department and also the University of Central Florida may be eligible to serve as the third member of Thesis Advisory Committees. The committee needs to be established prior to enrolling in thesis hours.

When a thesis topic has been selected, students, in conjunction with their faculty adviser, will develop a thesis proposal. A proposal meeting will be scheduled with the student and advisory committee prior to enrolling in thesis hours. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis

The completion of the thesis must be followed by an oral defense before the Thesis Advisory Committee. A successful format review, oral defense, and electronic submission of the thesis to the College of Graduate Studies for review completes the program requirements. Students are required to follow all procedures and timetables specified by the College of Graduate Studies.

Nonthesis Option—6 Credit Hours

Students selecting the nonthesis option take an additional 6 hours of elective course work for a total of 18 credit hours of electives.

- Electives **6 Credit Hours**

Comprehensive Examination

At the conclusion of course work, nonthesis students will be given a comprehensive examination. In consultation with the faculty adviser, two additional faculty members shall be selected to serve on the Examination Committee that will be chaired by the faculty adviser. This committee must be selected by the semester prior to the semester in which the student will take the exam. The comprehensive examination will consist of two phases. The first phase requires the student to write three (3) papers to answer a question from each member of their Examination Committee. Each paper will be 7-10 pages in length and will be due one week (7 days) from the date the student is provided the questions. The second phase will be a 90 minute comprehensive oral examination with two formal rounds of questions from the Examination Committee. A successful comprehensive examination completes the requirements for the degree. Students are required to follow all procedures and timetables specified by the College of Graduate Studies. The examination will be based on the course work in the student's program of study. Students must notify the department's graduate program director in writing of their intent to take the exam at least one week before the date fixed for the examination. A committee composed of three faculty members will conduct the examination. The grading system for the examination is as follows: 1) Pass with Distinction, 2) Pass, 3) Conditional Pass, and 4) Fail. Students who receive a grade of Conditional Pass will be required to complete additional work as determined by the grading committee. Students who fail must retake the exam. Failure to pass the examination on the second attempt will result in dismissal from the program. Students who indicate their intent to take the examination but do not take the exam will be awarded a failing grade.

Independent Learning

Students who choose the thesis option will gain independent learning experiences through their thesis research where they are expected to design and conduct their own research which culminates with the writing and defense of their thesis. Students will also gain this experience through their core course requirements as each course contains an independent research assignment. Students in the nonthesis option will gain independent learning experiences through all of their core courses, all of which contain an independent research component.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Personal statement of intent that must include the student's research interest, geographical area of interest, faculty they would like to work with, and future career plans (500 words).
- An academic writing sample such as a term paper or thesis chapter, usually between 2,500 and 5,000 words.
- A curriculum vitae.
- Three letters of recommendation that assess the applicant's potential as a graduate student. These letters should come from the applicant's previous professors and should not be more than 12-months old at the time of application.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Contact with a potential adviser is recommended prior to application. Advisers are unable to grant admission to applicants prior to all application materials being submitted and reviewed by the department.

The applicant's record will be reviewed on an individual basis and evaluated to assess the applicant's potential for success in the program. Students will be selected for the program on a competitive basis. Supplemental course work may be recommended for students who do not have a degree in anthropology or are missing key undergraduate course work.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, availability and match to a faculty adviser, and the applicant's potential for completing the degree. There is no automatic connection between acceptance as a non-degree-seeking student and acceptance into this degree-granting program. Please consult the graduate program director whenever questions arise.

Application Deadlines

Anthropology MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource. For more information on how the Department of Anthropology allocates funding please visit our department website.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Beatriz Reyes-Foster PhD

Associate Professor

beatriz.reyes-foster@ucf.edu

Telephone: 407-823-2206

HPH RM 309

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

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Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Applied Learning and Instruction MA ►

College: Community Innovation and Education	Degree: MA
Department: Learning Sciences and Educational Research	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/lser/applied-learning-and-instruction/	
Graduate Program Handbook	

Program Description

The Master of Arts in Applied Learning and Instruction program is designed for students from diverse academic majors who have an interest in the application of psychological theories and research to improving learning, instruction, and training in a variety of instructional contexts.

Graduates of the program will be prepared for a wide range of professional education, government, and industry positions, and for conducting activities such as instruction, training, evaluation, and consulting.

Students can tailor the program to meet their particular needs and interests by choosing among a large variety of courses for their concentration, including courses in teaching, instructional design, program evaluation, and psychological foundations. Courses are available in mixed mode (M) or fully online (W). The degree can be completed in the fully online mode.

Specialization and core courses are offered in the areas of the psychology of teaching and learning, motivation, human development, measurement, and research methodology. Both a thesis and a non-thesis option are available. All non-thesis students will be required to complete a comprehensive examination before completing the program.

Applications are accepted only for Fall admission. There are no Spring or Summer applicants accepted.

Please note: Applied Learning and Instruction (MA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Applied Learning and Instruction MA (ALIMA) program requires a minimum of 33 credit hours beyond the bachelor's degree including 15 credit hours of core courses, 12 credit hours of specialization, and 6 credit hours of a research component. The research component can be completed by choosing the thesis or nonthesis option, which requires a 6 credit hour Capstone research course. The program of study can be tailored to meet the specific needs of each student. The degree program can be completed in mixed mode (M) or fully online (W) formats.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

In addition to the course work, students are expected to meet the Continuous Attendance policy for graduate students. Please see the Continuous Attendance and Special Leave of Absence policies in the Graduate Catalog.

Required Courses—27 Credit Hours

Core—15 Credit Hours

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDP 6213 - Seminar in Applied Learning and Instruction I **3 Credit Hours**
- EDP 6217 - Seminar in Applied Learning and Instruction II **3 Credit Hours**
- EDF 6216 - Motivation in Learning and Performance **3 Credit Hours**
- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**

Specialization—12 Credit Hours

Students have the choice of taking specialization courses in multiple areas. Specialization courses may be taken within one specialization, or from multiple specializations. The purpose of this choice is to provide course offerings which appeal to student interest, but concurrently facilitate depth of knowledge in a particular discipline.

The student, program director and student advisers together determine a course of study to meet the student's needs while simultaneously developing core knowledge in a specific area with the adviser's approval. In addition, the adviser may approve courses taken as part of a UCF certificate program for this area of the MA (up to 12 credit hours). The adviser must approve all specialization courses.

Psychological Foundations

Other electives to be determined by adviser with program approval.

- DEP 5057 - Developmental Psychology **3 Credit Hours**
- EDF 6259 - Learning Theories Applied to Leadership in Teaching Practice **3 Credit Hours**
- EDF 6141 - Human Intelligence **3 Credit Hours**
- SPS 6225 - Behavioral and Observational Analysis of Classroom Interactions in Schools **3 Credit Hours**
- SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making **3 Credit Hours**
- EGC 6431 - Guiding Human Relationships I **3 Credit Hours**
- EGC 6432 - Guiding Human Relationships II **3 Credit Hours**

Business/Training

Other electives to be determined by adviser with program approval.

- INP 6317 - Work Motivation and Job Attitudes **3 Credit Hours**
- PSY 6216C - Research Methodology **4 Credit Hours**
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- MAN 6285 - Change Management **3 Credit Hours**

Instructional Design

Other electives to be determined by adviser with program approval.

- EME 6607 - Planned Change in Instructional Technology **3 Credit Hours**
- EME 6602 - Integration of Technology into the Learning Environments **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6457 - Distance Education: Technology Process Product **3 Credit Hours**
- EME 6613 - Instructional System Design **3 Credit Hours**
- EME 6405 - Adapting and Integrating Innovative Technologies in Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- EME 6705 - Administration of Instructional Systems **3 Credit Hours**
- EME 6055 - Current Trends in Instructional Technology **3 Credit Hours**

Teaching

Other electives to be determined by adviser with program approval.

- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours**
- ESE 6217 - Curriculum Design **3 Credit Hours**
- EME 5053 - Electronic Resources for Education **3 Credit Hours**

Program Evaluation

Other electives to be determined by adviser with program approval.

- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDG 6285 - Evaluation of School Programs **3 Credit Hours**
- ESE 6416 - Curriculum Evaluation **3 Credit Hours**

Thesis Option—6 Credit Hours

- EDF 6971 - Thesis **6 Credit Hours**

Steps for Completing a Master's Thesis

1. Submit a 2–3 page thesis prospectus and preliminary bibliography on a topic to their thesis adviser. Prior to enrollment into thesis credit hours, the student will identify a Thesis Committee to be further approved by the College Graduate Dean and the College of Graduate Studies. This committee is chaired by the adviser and includes two or more additional faculty members (minimum of 3 committee members required).
2. The formal thesis is initiated by the preparation of a proposal that meets both departmental and university requirements for the thesis. The members of the student's thesis committee review the proposal as the preliminary step to beginning the thesis. Students are responsible for sending their proposal to all committee members at least three weeks before the end of the semester. This committee must approve the Thesis Proposal before academic credit can accrue.
3. Once the proposal is approved by both the committee and the UCF Institutional Review Board, students should begin collecting and analyzing their data. Students should expect to defend their proposal during the semester in which they are enrolled for thesis credits.
4. The thesis is a formal written document. The introduction cites similar, related, and antecedent work. The body explains the purposes of the project, the method of its production, and any evaluation that was performed. The conclusion includes plans for future work. The thesis also includes an archival copy of the resulting creative product. Both the thesis and the creative product must be delivered in digital form, acceptable by the College of Graduate Studies and UCF library according to standards for digital dissertations and theses.

Nonthesis Option—6 Credit Hours

Six credit hours of Capstone coursework is required to give the student a foundation in conducting research.

- EDP 6936 - Capstone in Applied Learning and Instruction **1-6 Credit Hours**

Scholarly Product Requirement (Review 1)

Before the end of three years in the ALIMA program, students are required to submit evidence of their ability to conduct a scholarly examination of research in a chosen area in the field of educational psychology or another discipline as agreed upon with their advisor. They will demonstrate this ability by producing a scholarly review of literature to present a thorough overview of research surrounding a particular problem involving learning and/or instruction. As part of the review, students will present a list of research and theory-based potential solutions to the identified problem. This project will be introduced in the Seminar in Applied Learning and Instruction I and completed the following semester in Seminar in Applied Learning and Instruction II.

Comprehensive Exams (Review II)

The comprehensive exams serve as the culminating experience of the ALIMA program. The comprehensive exam must be completed no later than 10 days before the end of the semester in which the student graduates. Exams are offered at regularly scheduled times.

Nonthesis Option

For students electing not to write a thesis, the comprehensive exam will consist of three questions. The student will have one week to answer the questions in a take-home, extended essay file format. Students must cite all instances where their ideas are directly or indirectly related to outside sources. Students may not consult with other students or use Wikipedia or other online sources to complete their exams. Exams will be graded based on a pass or fail basis. Students who fail the exam marginally may be asked to rewrite specific questions. Students who fail the exam may be requested by their adviser to retake courses in areas of deficiency and will not be eligible to receive their master's degree until the exam is passed.

Thesis Option

For students electing to submit a thesis, their comprehensive exam will take place as an oral exam no less than 3 weeks after the final version of their thesis is submitted to their committee. During the oral exam, students will be asked to defend their thesis, as well as respond to questions that require them to integrate and synthesize information learned in their core courses.

Independent Learning

The MA program requires the completion of a research project. Research projects are independent learning activities in which students must apply, reflect upon, and refine knowledge and skills required in the program. By the end of the third year in this program, each student must satisfy a scholarly product requirement (Review I). This requirement can be met in one of two ways: students can submit a research study to a refereed journal (with faculty assistance), or submit a proposal for a presentation at an annual conference of a national or local organization (from an approved list of resources). The student must be primarily responsible for conceptualizing, carrying out, and reporting the results in both options. The student is responsible for obtaining approval of the product from his or her master's committee.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- One page statement of professional interests and goals addressing why the applicant is interested in the degree program.
- A scholarly or professional writing sample (preferably an undergraduate academic paper).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Letters of recommendation are not needed or considered in the application process.

Application Deadlines

Applied Learning and Instruction MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Bobby Hoffman PhD
bobby.hoffman@ucf.edu

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Athletic Training MAT

College: Health Professions and Sciences	Degree: MAT
Department: Kinesiology and Physical Therapy	Option: Nonthesis
Program Website: https://healthprofessions.ucf.edu/athletictraining	
Graduate Program Handbook	

Program Description

This track and its application process should be used by:

Applicants with a Bachelor's degree from an institution outside of UCF

And

Students who hold or will earn a degree from UCF AND intend to apply to Athletic Training Graduate Programs at other institutions AND UCF.

UCF students who hold or will earn a degree from UCF AND only intend to apply to the UCF Masters of Athletic Training should apply through the Athletic Training MAT - UCF BS to UCF MAT Track (Track requires an application through UCF Online Graduate Application but does NOT require an application through ATCAS).

The Master of Athletic Training (MAT) program is designed to enable students to demonstrate, in the classroom and during clinical experiences, that they have achieved levels of comprehension, competency, and proficiency expected of entry-level athletic trainers.

The program's classroom component is divided into two sections: athletic training theory and practice, and clinical experiences. The courses are designed to expose students to information through multiple didactic, laboratory, and clinical experiences. These courses incorporate the Curricular Content Standards set forth by the Commission on Accreditation of Athletic Training Education (CAATE).

All students are required to complete the curriculum in the established sequence of courses.

By combining excellence in teaching, the latest technologies available in education, and outstanding clinical site affiliations, graduates of the program are fully prepared to take and pass the comprehensive Board of Certification (BOC) exam and start their careers as athletic trainers.

The program is fully accredited by the Commission on Accreditation of Athletic Training Education (CAATE) through 2026-27. For information on how this program may prepare students for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Master-of-Athletic-Training.pdf>.

Mission

The Master of Athletic Training program prepares graduates to advance the quality of healthcare provided to physically active people through interdisciplinary patient-centered education. The Program is committed to providing students with enriching didactic, clinical, and research experiences that foster communication, critical thinking, leadership, and collaboration. Graduates of the Program will understand the role of the athletic trainer as a member of the healthcare team and will advocate for the advancement of the profession.

Vision

The Master of Athletic Training program aspires to be a nationally recognized leader in athletic training education where diverse students, faculty, and preceptors advance healthcare through innovation in education, research, and clinical practice.

Values

The Master of Athletic Training program faculty values initiative, integrity, compassion, inclusion, and altruism.

Prerequisites

Completion of prerequisite coursework outlined below with a minimum grade of "C" (2.0) is required. Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses. Courses older than 10 years will not be accepted. Applicants should only be enrolled in a maximum of two prerequisite courses at the time of application.

General Bio/Biology - A minimum of 4 credits (including a lab) for science majors - Biology courses for non-science majors and non-human biology courses are not acceptable.

Human Anatomy and Physiology - A minimum of 8 credits (including two labs) for science majors - Anatomy and physiology courses for non-science majors and non-human anatomy and physiology courses are not acceptable.

Option 1: One semester of Human Anatomy with lab and one semester of Human Physiology with lab

Option 2: Two semesters of Anatomy and Physiology combined courses with a lab each (A&P-I and A&P-II)

Statistics - A minimum of 3 credit hours

Human Nutrition /Clinical Nutrition - A minimum of 3 credit hours for science or health/medicine/nursing majors

General Psychology - A minimum of 3 credit hours - Any course taken within a psychology department/unit will be acceptable.

Exercise Physiology - A minimum of 3 credit hours

Biomechanics or Kinesiology - A minimum of 3 credit hours

General Chemistry/Chemistry I - A minimum of 4 credits (including a lab) for science majors

Physics I - A minimum of 4 credits (including a lab) for science majors

Curriculum

The MAT degree program is a two-year full-time professional master's program requiring 65 credit hours beyond the bachelor's degree. The courses are taken in a prescribed sequence over 6 semesters, including 18 credit hours of clinical practice. Clinical practice occurs under the direct supervision of a certified and licensed athletic trainer.

Total Credit Hours Required: 65 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—65 Credit Hours

Summer 1/Semester 1—9 Credit Hours

- ATR 5016 - Foundational Behaviors of Athletic Training Practice I **1 Credit Hours**
- ATR 5106C - Prevention of Injury and Illness in Athletic Training Practice **2 Credit Hours**
- ATR 5206C - Functional Human Anatomy for Athletic Trainers **3 Credit Hours**
- ATR 5117C - Acute Care in Athletic Training Practice I **3 Credit Hours**

Fall 1/Semester 2—12 Credit Hours

- ATR 5017 - Foundational Behaviors of Athletic Training Practice II **1 Credit Hours**
- ATR 5219C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice I **3 Credit Hours**
- ATR 5306C - Therapeutic Interventions in Athletic Training Practice I **3 Credit Hours**
- ATR 5406C - General Medical Conditions in Athletic Training Practice I **2 Credit Hours**
- ATR 5617 - Athletic Training Research I **1 Credit Hours**
- ATR 5815L - Practicum in Athletic Training I **2 Credit Hours**

Spring 1/Semester 3—12 Credit Hours

- ATR 5217C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice II **3 Credit Hours**
- ATR 5307C - Therapeutic Interventions in Athletic Training Practice II **3 Credit Hours**
- ATR 5516 - Healthcare Administration in Athletic Training Practice I **2 Credit Hours**
- ATR 5825L - Practicum in Athletic Training II **2 Credit Hours**
- ATR 6407C - General Medical Conditions in Athletic Training Practice II **2 Credit Hours**

Summer 2/Semester 4—8 Credit Hours

- ATR 6218C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice III **3 Credit Hours**
- ATR 6308C - Therapeutic Interventions in Athletic Training Practice III **3 Credit Hours**
- ATR 6618C - Athletic Training Research II **1 Credit Hours**

- ATR 6835L - Practicum in Athletic Training III **1 Credit Hours**

Fall 2/Semester 5—12 Credit Hours

- ATR 6309C - Therapeutic Interventions in Athletic Training Practice IV **3 Credit Hours**
- ATR 6845L - Practicum in Athletic Training IV **9 Credit Hours**

Spring 2/Semester 6—12 Credit Hours

- ATR 6517 - Healthcare Administration in Athletic Training Practice II **2 Credit Hours**
- ATR 6505 - Athletic Training Seminar **1 Credit Hours**
- ATR 6118L - Acute Care in Athletic Training Practice II **1 Credit Hours**
- ATR 6619C - Athletic Training Research III **4 Credit Hours**
- ATR 6855L - Practicum in Athletic Training V **4 Credit Hours**

Comprehensive Examination

Passing a comprehensive examination with a grade of 80 percent or better is a requirement for continued progress in the Master of Athletic Training degree. This examination will be given to every student at the end of the third semester (mid-point of the program). Students must take the exam at that time and will be allowed a maximum of three (3) attempts. Failure to pass the examination in 3 attempts will result in a review by the AT Program Progression and Retention Committee and may result in dismissal from the program. Students may not enroll in fourth-semester coursework until they have successfully completed the comprehensive examination.

Equipment Fee

Students enrolled full-time in the Master of Athletic Training degree program pay an estimated Equipment Fee of \$56 each semester they are enrolled.

Additional Program Costs

Current expenses for tuition fees and other university fees are listed on the UCF Student Accounts website (<https://studentaccounts.ucf.edu/tf-graduate/>). Additionally, several MAT courses include Material and Supply fees which are listed in the UCF Graduate Catalog. Students in the MAT program are also expected to pay for the following: nametags, CPR/First Aid/AED certification, appropriate clinical attire, transportation costs, and background checks/fingerprinting.

Independent Learning

All students in the Master of Athletic Training program are required to engage in independent learning, a process in which individuals take the initiative, with or without the help of others, to attain knowledge, skills, and professional behaviors. Activities such as case studies, critical analysis of literature, research/capstone projects, and clinical practica provide important independent learning experiences that give students ample opportunity to demonstrate and develop independent learning skills.

Application Requirements

This track and its application process should be used by:

Applicants with a Bachelor's degree from an institution outside of UCF

And

Students who hold or will earn a degree from UCF AND intend to apply to Athletic Training Graduate Programs at other institutions AND UCF.

UCF students who hold or will earn a degree from UCF AND only intend to apply to the UCF Masters of Athletic Training should apply through the Athletic Training MAT - UCF BS to UCF MAT Track (Track requires an application through UCF Online Graduate Application but does NOT require an application through ATCAS).

Applicants must apply to both UCF Graduate Admissions and the Athletic Training Centralized Application System (ATCAS).

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog.

The Master of Athletic Training program participates in the Athletic Training Centralized Application Service, known as ATCAS. Prospective students must apply online using the ATCAS application. In addition to the ATCAS application, applicants must also submit a UCF application for graduate admissions at <https://applynow.graduate.ucf.edu/apply/>. Both the ATCAS application and the UCF Graduate application must be submitted by the posted application deadline.

All application materials **MUST** be sent directly to ATCAS. Supporting documents (transcripts, letters, etc.) **should not** be sent directly to the MAT program or UCF College of Graduate Studies and will not be reviewed. To learn more about the ATCAS application process, visit <http://caate.net/apply-now/>.

Admission to the MAT program is competitive and applications are reviewed as they are received beginning February 1. Students may continue to apply after February 1 and will be evaluated (rolling admissions) until seats are filled. The final deadline for applications is April 1.

Applicants must apply to both UCF Graduate Admissions and the Athletic Training Centralized Application System (ATCAS).

The following application materials must be received by ATCAS:

- Completed ATCAS application including all documents required by ATCAS.
- One official transcript from each college/university attended.
 - The transcripts must demonstrate a minimum of a 3.0 overall GPA in undergraduate coursework and completion of prerequisite coursework with a minimum grade of "C" (2.0).
 - Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses.
 - The bachelor's degree may be in any discipline from an accredited institution recognized by UCF and may be in progress at the time of application. However, the degree must be awarded prior to the program's start date in the Summer C semester (mid-May).
 - Applicants who have attended a college/university outside the United States must also provide a course-by-course credential evaluation with GPA calculation.
- Official GRE scores taken within the last five years. Use GRE CODE for UCF ATCAS: 4241 (Do not use the "Institution Code" for GRE listed at the bottom.)
- Proof of 50 hours of observation of an athletic trainer (BOC certified) in a high school, collegiate, and/or professional sports setting.

- Three (3) letters of recommendation with ATCAS recommendation forms, including one from an athletic trainer.
- Complete a personal statement/essay about professional goals and the discipline of athletic training.

Incomplete applications will NOT be reviewed.

- An interview, by invitation only, may be required after the initial application review process is complete.
- Admission to the program is competitive. Meeting minimum requirements does not guarantee an applicant an interview or admission to the program.
- Admissions decisions will be made only once per academic year. Incoming students must begin the program in the summer C semester (mid-May).

Application Deadlines

Athletic Training MAT	*Fall Priority	Fall	Spring	Summer
Domestic Applicants				Apr 1
International Applicants				Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kristen Schellhase EdD, LAT, ATC
 Program Director/Associate Lecturer
 kristen.schellhase@ucf.edu
 Telephone: 407-823-3463
 Health and Public Affairs II 121

Kim MacLennan

Academic Program Coordinator
kim.maclennan@ucf.edu
Telephone: 407-823-2747
Health and Public Affairs II 119

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

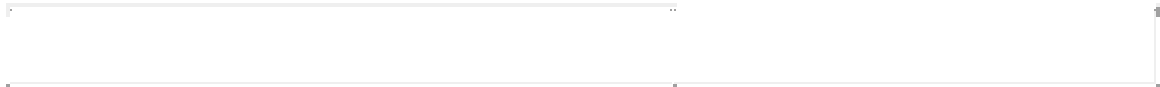
Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>



Biology MS

College: Sciences	Degree: MS
Department: Biology	Option: Thesis
Program Websites: https://sciences.ucf.edu/biology/graduate/	
Graduate Program Handbook	

Program Description

The Master of Science in Biology program offers a broad range of research opportunities ranging from the sub-cellular to entire ecosystems.

Our program offers broad-based training in a variety of disciplines including Conservation Biology, Ecology, Evolution, Physiology, Genetics, and Cell and Developmental Biology.

Curriculum

The Master of Science in Biology program offers a thesis option only (the non-thesis MS option is not currently accepting applications). The thesis option requires a minimum of 30 credit hours, 15 of which must be at the 6000

level. Given the thesis requirement, students who wish to pursue this degree must receive a commitment from a faculty adviser for admission into the program. The thesis option curriculum contains a minimum of 24 credit hours of coursework excluding thesis hours (note: Independent Study and Directed Research may account for a maximum of 6 of the 24 coursework credits).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Most graduate courses require reading and critical analysis of the primary literature in biology, and students are required to make presentations of their analysis or present proposals outlining a series of integrated experiments that would further knowledge in the field. Thesis students work with a faculty adviser and advisory committee members throughout planning and conducting their thesis research. Students submit a thesis proposal to the committee for approval prior to conducting the research and present a thesis defense and examination upon completion of that work.

Required Courses—7 Credit Hours

- BSC 6935 - Seminar in Biology **1 Credit Hours** (2 credit hours; 1 credit hour each of two semesters)
- PCB 6095 - Professional Development in Biology I **1 Credit Hours**
- PCB 6096 - Professional Development in Biology II **1 Credit Hours**
- PCB 6466 - Methods in Experimental Ecology **3 Credit Hours**

Thesis Option—23 Credit Hours

- BSC 6971 - Thesis **6 Credit Hours** (minimum)
- Electives - **17 Credit Hours** selected with the faculty adviser and advisory committee and approved by the graduate program director

Examinations

A thesis proposal defense is required. The purpose of the proposal defense is to present the planned research and its foundations as a seminar to an interested audience of peers and the advisory committee. The proposal should be distributed to advisory committee members two weeks in advance of the defense, and the defense should be advertised (contact the graduate program specialist two weeks in advance). Public attendees typically have an opportunity to ask questions and comment following the seminar, after which the committee meets with the student to further discuss the proposal. The advisory committee must then vote to accept or reject the proposal. The thesis proposal defense must be passed a minimum of one semester preceding the oral thesis defense (i.e., the proposal defense and thesis defense cannot occur in the same semester). When the research is completed, the final oral thesis defense is conducted similar to the proposal defense.

Non-thesis Option—33 Credit Hours

NOTE: The Department of Biology is no longer accepting applications to the non-thesis program.

In addition to the 7 credit hours of required courses listed above, nonthesis students must complete 12 credit hours of restricted electives, 19 credit hours of unrestricted electives, and a research report. Currently enrolled thesis option students interested in transferring to the nonthesis option should contact the graduate program director for information.

Restricted Electives—12 Credit Hours

Students take 12 credit hours of courses in at least three of the five areas below.

- Ecology
- Evolutionary Biology
- Genetics
- Physiology
- Cell and Developmental Biology

Unrestricted Electives—19 Credit Hours

Students take 19 credit hours of unrestricted electives that must be approved by the program graduate director.

Research Report—2 Credit Hours

- BSC 6909 - Research Report **2 Credit Hours**

Examination

Nonthesis students must take a comprehensive exam no later than the semester preceding that of graduation. If a student fails the comprehensive examination, a minimum of four weeks must elapse before reexamination. The comprehensive exam may be taken a maximum of two times.

Independent Learning

Nonthesis students are required to complete a research report as their independent learning experience. The thesis satisfies the independent learning experience for thesis option students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended
- Three letters of recommendation that addresses the applicant's capabilities and likelihood of success as an M.S. student.
- Résumé or CV
- A personal statement. Assessment of your application is based on your academic background, analytical skills, communication skills, and research experience. A personal statement is an opportunity to convey to the selection committee your personal, academic, and/or professional experiences that have led to your desire to attend graduate school. Include your long-term career goals and how a graduate education will help you achieve these goals. It is important to dedicate a section of your statement to discuss your research interests.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- **NOTE:** Scores on the Graduate Record Examination (GRE) are no longer required for admission into the MS Biology program or consideration for assistantships. However, GREs may be used for deciding internal UCF fellowships. If you wish to be considered for these fellowships, we encourage you to submit your GRE scores.

Applicants do not need to have an undergraduate degree in a biological science, but are expected to have 18 hours of biological sciences, including ecology and genetics. Courses in organic chemistry, calculus, and statistics are also recommended. After acceptance, minor deficiencies must be remedied by enrollment in the appropriate course at the first opportunity.

MS applicants should first identify faculty who match their own research interests, and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student's thesis advisor. Applicants who do not have a consenting thesis advisor within the department faculty will not be accepted into the program.

Applicants who do not have a competitive GPA may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Application Deadlines

Students applying for summer or spring admission will be considered on an ad hoc basis but must complete their applications by December 1.

Biology MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 1	Dec 1		
International Applicants	Dec 1	Dec 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or teaching assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kate Mansfield PhD

Associate Professor
Graduate Program Director
BioGradChair@ucf.edu
BIO 402B

Juana Pasco

Graduate Admissions Specialist
juana.pasco@ucf.edu
Telephone: 407-823-6525
BL301

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Engineering MSBME

College: Engineering and Computer Science	Degree: MSBME
Department: Mechanical and Aerospace Engineering	
Program Websites: http://www.mae.ucf.edu/	

Program Description

The Master of Science degree in Biomedical Engineering is designed to train graduates with professional skills enabling them to gain employment in the biomedical engineering industry or to enter competitive Biomedical Engineering PhD research programs. It also offers the option to UCF College of Medicine students to enrich education and professional careers by pursuing a tailored MSBME/MD program.

Graduates will have a command of the application of engineering principles to biological and health systems. They will gain skills in modern biomedical engineering tools, understanding of relevant physiology and biology, knowledge of contemporary topics in medical technology, and ability to engage in advanced engineering studies including elements of research, analysis, design and experimentation.

Career opportunities include research, design, analysis, testing and product development in the biomedical and rehabilitation industries, in clinical engineering, and in biomedical engineering.

The MSBME degree offers the following gateways into the program:

- MSBME for students with formal training in engineering or biomedical engineering who have earned a BS degree and are seeking postbaccalaureate education and training.
- MSBME along-the-way to engineering students who are admitted into the PhD program in MAE and engaged in BME research.
- MSBME to students in the BS-to-MS track.
- MSBME to recent BS graduates potentially interested in pursuing PhD research with a preference for admission to the UCF doctoral graduate program upon completion.
- A combined MD/MSBME to UCF College of Medicine MD students with an engineering background and interest who can pursue the degree with one additional year sandwiched between the end of the second and beginning of the third year of medical school. This program is aimed at MD students who wish to expand on their years one and two College of Medicine FIRE (Focused Individualized Research Experience) project into an MS thesis.

The program offers thesis and nonthesis options:

- Biofluids Track - Thesis and Nonthesis options
- Biomechanics Track - Thesis and Nonthesis options
- MD/MSBME Track - Thesis only

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf>.

Program Tracks

- Biomedical Engineering MSBME, Accelerated BS to MSBME Track
- Biomedical Engineering MSBME, Biofluids Track
- Biomedical Engineering MSBME, Biomechanics Track
- Biomedical Engineering MSBME, MD/MSBME Track

Curriculum

The MSBME requires completion of 30 hours at the graduate level (a combination of 5000 and 6000 level classes) and will be offered with two options: (1) thesis (30 credit hours): 24 credit hours of coursework plus 6 credit hours of thesis with at least 15 credit hours at the 6000 level. (2) nonthesis options (30 credit hours): 30 credit hours of coursework with at least 15 credit hours at the 6000 level.

There are four tracks according to which the curriculum is structured within each option: Accelerated BS to MS, Biofluids, Biomechanics, and MD/MSBME.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be met with departmental approval.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department. More information is available from the MAE departmental website listed above.

For the Accelerated BS to MS track, the BS is awarded after completion of 128 university credit hours and 71 hours of engineering courses and all other university requirements, and the MS is awarded upon completion of the Master in Biomedical Engineering program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Thesis

The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

At least 24 credit hours of the program of study must be course work, exclusive of thesis and research.

Nonthesis

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level.

At least 24 credit hours of the program of study must be course work, exclusive of research and thesis credit hours.

Graduation

Graduation requirements for the MSBME program follow the standards of the College of Engineering and Computer Science and the UCF College of Graduate Studies graduation requirements. For all tracks and options, students must maintain a minimum 3.0 graduate program GPA to be eligible to graduate. Students in the thesis option must complete 24 hours of coursework (at least half of which is at the 6000 level) and 6 hours of Thesis (6971), and present and successfully defend an thesis. Students in the nonthesis option must complete 30 hours of coursework (half of which is at the 6000 level).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Engineering MSBME, Accelerated BS to MSBME Track

College: Engineering and Computer Science	Degree: MSBME
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Accelerated Undergraduate/Graduate program in Biomedical Engineering allows highly qualified undergraduate majors in Mechanical Engineering and Aerospace Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf>.

Curriculum

The BSME or BSAE is awarded after completing all university requirements, including 128 total credit hours and 71 credit hours of engineering courses. The MSBME is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Up to 12 credit hours of approved graduate level courses of grades "B" (3.0) or better may be counted toward the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Mechanical Engineering are as follows:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "B" (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major.

Biofluids Track

For the **Biofluids Track**, qualified courses that may be selected for the Accelerated BS to MS are:

- EML 6211 - Continuum Mechanics **3 Credit Hours**
- BME 5216C - Mechanics of Biostructures I **3 Credit Hours**
- BME 5217C - Mechanics of Biostructures II **3 Credit Hours**
- BME 5267 - Biofluid Mechanics **3 Credit Hours**
- BME 6268C - Applied and Computational Biofluids **3 Credit Hours**
- Or a technical elective approved by the graduate program director

Biomechanics Track

For the **Biomechanics Track**, qualified courses that may be selected for the Accelerated BS to MS are:

- EML 6211 - Continuum Mechanics **3 Credit Hours**
- BME 5216C - Mechanics of Biostructures I **3 Credit Hours**
- BME 5217C - Mechanics of Biostructures II **3 Credit Hours**
- BME 6500C - Bioinstrumentation **3 Credit Hours**
- BME 6215 - Advanced Biomechanics **3 Credit Hours**
- Or a technical elective approved by the graduate program director

Representative Electives

- BME 5572 - Biomedical Nanotechnology **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- EEE 5265 - Biomedical Effects and Applications of Electromagnetic Energy **3 Credit Hours**
- EEL 5272 - Biomedical Sensors **3 Credit Hours**
- EEL 5690 - Medical Robotics **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 5584 - Biomaterials **3 Credit Hours**
- EMA 5588 - Biocompatibility of Materials **3 Credit Hours**
- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5066 - Computational Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5291 - MEMS Materials **3 Credit Hours**
- EML 5546 - Engineering Design with Composite Materials **3 Credit Hours**
- EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II **3 Credit Hours**
- EML 6299 - Advanced Topics on Miniaturization **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6609 - Industrial Engineering Analytics for Healthcare **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- IDS 6252 - Biomedical Nanotechnology **3 Credit Hours**
- IDS 6253 - Bioanalytical Technology **3 Credit Hours**

Undergraduate Requirements

Please see the current edition of the Undergraduate Catalog for additional information about this program.

Graduate Requirements

The Biomedical Engineering program requires a minimum of 30 credit hours beyond the bachelor's degree, and offers thesis and nonthesis options in two tracks, Biofluids and Biomechanics. At least 24 credit hours of course work must be taken, exclusive of thesis and research. The thesis options require 24 credit hours of formal courses, and six credit hours of thesis. Accelerated Biomedical Engineering students must declare their interest in either the Biofluids Track or the Biomechanics Track by completing a Program of Study with their adviser.

Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

The nonthesis options require 30 credit hours of courses, including completion of BME 6935 - Topics in Biomedical Engineering.

Additionally, all students pursuing the thesis option must enroll in the following course:

- EML 5936 - Mechanical and Aerospace Seminar **0 Credit Hours**

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. For nonthesis students, the independent learning experience is provided by BME 6935 - Topics in Biomedical Engineering, one of the required courses.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The **Accelerated BS to MS** program in Biomedical Engineering allows highly qualified University of Central Florida undergraduate majors in Mechanical or Aerospace Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to either the **Biofluids Track** or **Biomechanics Track**.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- A written statement of experience and research, areas of interest, and future career goals.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

Application Deadlines

Accelerated BS to MSBME	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827
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Fax: 407-823-5241
finaid@ucf.edu
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Biomedical Engineering MSBME, Biofluids Track

College: Engineering and Computer Science	Degree: MSBME
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Biofluids track in the Master of Science degree in Biomedical Engineering provides graduates with professional skills enabling them to gain employment in the biomedical engineering industry or to enter competitive Biomedical Engineering PhD research programs. Career opportunities include research, design, analysis, testing and product development in the biomedical and rehabilitation industries, in clinical engineering, and in biomedical engineering.

Current research focuses on translational research in multiscale computational fluid dynamics for cardiovascular treatment planning, lung cancer treatment planning, upper airways fluid mechanics, bioacoustics for patient monitoring and bedside diagnosis.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf>.

Curriculum

The Master of Science in Biomedical Engineering requires 30 credit hours at the graduate level (a combination of 5000 and 6000 level courses) and offers both thesis and nonthesis options.

Thesis students take 15 credit hours of required courses, 6 credit hours of Biofluids courses, 3 credit hours of an approved elective, and 6 credit hours of thesis.

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of coursework. Nonthesis students take 15 credit hours of required courses, 6 credit hours of Biofluids courses, and 9 credit hours of approved electives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must take at least 15 credit hours at the 6000 level. At least 24 credit hours of the program of study must be course work, exclusive of research and thesis hours.

All students must identify an adviser and file an official program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be approved by the department.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program. Substitutions to the program of study must be approved by the student's faculty adviser and department. More information is available on the MAE departmental website (<http://www.mae.ucf.edu/>).

Prerequisites for non-engineering students applying to the program

* Or equivalent (see graduate adviser)

- Calculus with Analytic Geometry I (MAC 2311C), Calculus with Analytic Geometry II (MAC 2312), Calculus with Analytic Geometry (MAC 2313), Ordinary Differential Equations (MAP 2302)
- Engineering Analysis - Statics (EGN 3310), Engineering Analysis - Dynamics (EGN 3321), and Solid Mechanics (EGM 3601)
- Thermodynamics (EGN 3343)*
- Fluid Mechanics I (EML 4702) and Fluid Mechanics II (EML 4703)
- Heat Transfer (EML 4142)
- Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)*
- Mechanical Engineering Measurements (EML 3303C)*

Required Courses—15 Credit Hours

- BME 5216C - Mechanics of Biostructures I **3 Credit Hours**
- BME 5217C - Mechanics of Biostructures II **3 Credit Hours**
- BME 6500C - Bioinstrumentation **3 Credit Hours**
- BME 6935 - Topics in Biomedical Engineering **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**

Biofluids Courses—6 Credit Hours

- BME 5267 - Biofluid Mechanics **3 Credit Hours**
- BME 6268C - Applied and Computational Biofluids **3 Credit Hours**

Representative Electives

- BME 5572 - Biomedical Nanotechnology **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- EEE 5265 - Biomedical Effects and Applications of Electromagnetic Energy **3 Credit Hours**
- EEL 5272 - Biomedical Sensors **3 Credit Hours**
- EEL 5690 - Medical Robotics **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 5584 - Biomaterials **3 Credit Hours**
- EMA 5588 - Biocompatibility of Materials **3 Credit Hours**
- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5066 - Computational Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5291 - MEMS Materials **3 Credit Hours**
- EML 5546 - Engineering Design with Composite Materials **3 Credit Hours**
- EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II **3 Credit Hours**

- EML 6299 - Advanced Topics on Miniaturization **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6609 - Industrial Engineering Analytics for Healthcare **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- IDS 6252 - Biomedical Nanotechnology **3 Credit Hours**
- IDS 6253 - Bioanalytical Technology **3 Credit Hours**

Thesis Option—9 Credit Hours

Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the student's program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- BME 6971 - Thesis **VAR Credit Hours**
- Approved elective at 5000 or 6000 level **3 Credit Hours**

Nonthesis Option—9 Credit Hours

- Three approved electives at 5000 or 6000 level (3 credit hours each, for a total of 9 credit hours)

MAE Department Graduate Seminar Requirement

The MAE Graduate Seminar is a zero credit hour (S/U) course that is offered each Fall and Spring academic semesters. All MAE graduate students who are pursuing the MSBME with the thesis option are required to register, participate in, and receive a satisfactory (S) grade for two semesters of MAE Graduate Seminar prior to graduation.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. For nonthesis students, the independent learning experience is provided by BME 6935 - Topics in Biomedical Engineering, one of the required courses.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Application Deadlines

Biofluids	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
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Biomedical Engineering MSBME, Biomechanics Track

College: Engineering and Computer Science	Degree: MSBME
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Biomechanics track in the Master of Science degree in Biomedical Engineering provides graduates with professional skills enabling them to gain employment in the biomedical engineering industry or to enter competitive Biomedical Engineering PhD research programs. Career opportunities include research, design, analysis, testing and product development in the biomedical and rehabilitation industries, in clinical engineering, and in biomedical engineering.

The current research focus is in biomechanics, developmental dysplasia of the hip, cellular mechanics and force-induced biochemical responses, image guided surgery, surgical robotics navigation and tracking, soft robotics, and biomechanics of movement rehabilitation and neural control of movement.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf>.

Curriculum

The Master of Science in Biomedical Engineering requires 30 credit hours at the graduate level (a combination of 5000 and 6000 level courses) and offers both thesis and nonthesis options.

Thesis students take 15 credit hours of required courses, 6 credit hours of Biomechanics courses, 3 credit hours of an approved elective, and 6 credit hours of thesis.

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of coursework. Nonthesis students take 15 credit hours of required courses, 6 credit hours of Biomechanics courses, and 9 credit hours of approved electives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must take at least 15 credit hours at the 6000 level. At least 24 credit hours of the program of study must be course work, exclusive of research and thesis hours.

All students must identify an adviser and file an official program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be approved by the department.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program. Substitutions to the program of study must be approved by the student's faculty adviser and department. More information is available on the MAE departmental website (<http://www.mae.ucf.edu/>).

Prerequisites for non-engineering students applying to the program

- Calculus with Analytic Geometry I (MAC 2311C), Calculus with Analytic Geometry II (MAC 2312), Calculus with Analytic Geometry (MAC 2313), Ordinary Differential Equations (MAP 2302)
- Engineering Analysis - Statics (EGN 3310), Engineering Analysis - Dynamics (EGN 3321), and Solid Mechanics (EGM 3601)
- Thermodynamics (EGN 3343)*
- Design and Analysis of Machine Components (EML 3500)
- Introduction to Vibrations and Controls (EML 4225)
- Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)*
- Mechanical Engineering Measurements (EML 3303C)*

* Or equivalent (see graduate adviser)

Required Courses—15 Credit Hours

- BME 5216C - Mechanics of Biostructures I **3 Credit Hours**
- BME 5217C - Mechanics of Biostructures II **3 Credit Hours**
- BME 6500C - Bioinstrumentation **3 Credit Hours**
- BME 6935 - Topics in Biomedical Engineering **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**

Biomechanics Courses—6 Credit Hours

- BME 6215 - Advanced Biomechanics **3 Credit Hours**
- EML 6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I **3 Credit Hours**

Representative Electives

- BME 5572 - Biomedical Nanotechnology **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- EEE 5265 - Biomedical Effects and Applications of Electromagnetic Energy **3 Credit Hours**
- EEL 5272 - Biomedical Sensors **3 Credit Hours**
- EEL 5690 - Medical Robotics **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 5584 - Biomaterials **3 Credit Hours**
- EMA 5588 - Biocompatibility of Materials **3 Credit Hours**
- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5066 - Computational Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5291 - MEMS Materials **3 Credit Hours**
- EML 5546 - Engineering Design with Composite Materials **3 Credit Hours**
- EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II **3 Credit Hours**
- EML 6299 - Advanced Topics on Miniaturization **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6609 - Industrial Engineering Analytics for Healthcare **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- IDS 6252 - Biomedical Nanotechnology **3 Credit Hours**
- IDS 6253 - Bioanalytical Technology **3 Credit Hours**

Thesis Option—9 Credit Hours

Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the student's program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- BME 6971 - Thesis **VAR Credit Hours**
- Approved elective at 5000 or 6000 level **3 Credit Hours**

Nonthesis Option—9 Credit Hours

- Three approved electives at 5000 or 6000 level **3 Credit Hours each, for a total of 9 Credit Hours**

MAE Department Graduate Seminar Requirement

The MAE Graduate Seminar is a zero credit hour (S/U) course that is offered each Fall and Spring academic semesters. All MAE graduate students who are pursuing the MSBME with the thesis option are required to register, participate in, and receive a satisfactory (S) grade for two semesters of MAE Graduate Seminar prior to graduation.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. For nonthesis students, the independent learning experience is provided by BME 6935 - Topics in Biomedical Engineering, one of the required courses.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Application Deadlines

Biomechanics	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	

International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor
jihua.gou@ucf.edu
Telephone: 407-823-2155
ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Engineering MSBME, MD/MSBME Track

College: Engineering and Computer Science	Degree: MSBME
Department: Mechanical and Aerospace Engineering	Option: Thesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Biomedical Engineering MS program offers an MD/MSBME Track that enables qualified students to earn both the MD and the MSBME degrees.

For medical students, the combined MD/MSBME will run as a 5-year program where the students will complete the majority of the MSBME requirements in the third year after matriculation, prior to their clinical experiences. MD students apply and are admitted into the MSBME program in Fall. Upon successful completion of the Structure and Function and FIRE modules in their first year of medical school, students in the MD/MSBME program will receive 9 hours of credit toward the 30 credit hours required for the requirements of the MSBME degree. Medical students will complete the second year of the curriculum and take a year's leave of absence to take most of the MSBME degree requirements.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf>.

Curriculum

The Biomedical Engineering MS program requires a minimum of 30 credit hours for students who choose the MD/MSBME track. In this restricted admission MD track, students complete biomedical engineering core courses, concentration courses in Biofluids or Biomechanics, and a thesis.

For MD students in this track, the combined MD/MSBME will be a five-year program, where students complete the majority of the MSBME requirements in the third year (15 credit hours of coursework and 3 credit hours of thesis), receive 9 credit hours of transfer credit from their MD program toward the 30 credit hours required for the MSBME, defend their master's thesis and take the balance of 3 credit hours of thesis in the fifth year, and then graduate with both MD and MSBME degrees.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must take at least 15 credit hours at the 6000 level. At least 24 credit hours of the program of study must be course work, exclusive of research and thesis hours.

All students must identify an adviser and file an official program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be approved by the department.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program. Substitutions to the program of study must be approved by the student's faculty adviser and department. More information is available on the MAE departmental website (<http://www.mae.ucf.edu/>).

Required Courses—24 Credit Hours

Core Courses—18 Credit Hours

- BMS 6001 - Cellular Function and Medical Genetics **5 Credit Hours** (Medical Module)
- BSC 6433 - Biomedical Sciences II **5 Credit Hours**
replace BME 5216C and BME 5217C (9 credit hours transferred into MS program of study)
- BME 6500C - Bioinstrumentation **3 Credit Hours**
- BME 6935 - Topics in Biomedical Engineering **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**

Concentration—6 Credit Hours

Biofluids

Students in the Biofluids Option may select one or both courses from the Biofluids Concentration.

- BME 5267 - Biofluid Mechanics **3 Credit Hours**
- BME 6268C - Applied and Computational Biofluids **3 Credit Hours**

Biomechanics

Students in the Biomechanics Option may select one or both courses from the Biomechanics Concentration.

- BME 6215 - Advanced Biomechanics **3 Credit Hours**
- EML 6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I **3 Credit Hours**

Representative Electives

Students may use this section to complete 3 of 6 credit hours for the Concentration section.

- BME 5572 - Biomedical Nanotechnology **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- EEE 5265 - Biomedical Effects and Applications of Electromagnetic Energy **3 Credit Hours**
- EEL 5272 - Biomedical Sensors **3 Credit Hours**
- EEL 5690 - Medical Robotics **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 5584 - Biomaterials **3 Credit Hours**
- EMA 5588 - Biocompatibility of Materials **3 Credit Hours**
- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5066 - Computational Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5291 - MEMS Materials **3 Credit Hours**
- EML 5546 - Engineering Design with Composite Materials **3 Credit Hours**
- EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II **3 Credit Hours**
- EML 6299 - Advanced Topics on Miniaturization **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6609 - Industrial Engineering Analytics for Healthcare **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- IDS 6252 - Biomedical Nanotechnology **3 Credit Hours**
- IDS 6253 - Bioanalytical Technology **3 Credit Hours**

Thesis—6 Credit Hours

Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the student's program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- BME 6971 - Thesis **VAR Credit Hours**

MAE Department Graduate Seminar Requirement

The MAE Graduate Seminar is a zero credit hour (S/U) course that is offered each Fall and Spring academic semesters. All MAE graduate students who are pursuing the MSBME are required to register, participate in, and receive a satisfactory (S) grade for two semesters of MAE Graduate Seminar prior to graduation.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students interested in pursuing both the MD and MSBME degrees must apply and be accepted into medical school and the Biomedical Engineering MS program. Separate applications are required, but students wishing to pursue this joint degree program should indicate this and state their reasons on both applications. Information regarding admission and application to UCF's MD program can be found at <https://med.ucf.edu/administrative-offices/student-affairs/admissions/>.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- In addition to the above requirements, students must also meet the requirements for medical school admission: <https://med.ucf.edu/administrative-offices/student-affairs/admissions/>

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Application Deadlines

MD / MSBME	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

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Graduate Fellowships

Grad Fellowships

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gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
 http://finaid.ucf.edu

Biomedical Sciences MS

College: Medicine	Degree: MS
Department: Burnett School of Biomedical Sciences	Option: Nonthesis
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Program Description

The Master of Science in Biomedical Sciences program is a nonthesis program for students who wish to further their knowledge in the field and prepare for professional careers in medical fields, higher education, and research. **Students interested in research and thesis work should apply to the Master of Science in Biotechnology program.**

Program Tracks

- Biomedical Sciences MS, Cancer Biology Track
- Biomedical Sciences MS, Infectious Disease Track
- Biomedical Sciences MS, Integrated Medical Sciences Track
- Biomedical Sciences MS, Metabolic and Cardiovascular Sciences Track
- Biomedical Sciences MS, Neuroscience Track

Curriculum

The Biomedical Sciences nonthesis program requires a minimum of 33 credit hours of courses that includes a capstone experience. The program addresses the need of applicants who wish to pursue a teaching career in secondary schools, two-year and four-year colleges or other careers without an active research role. Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

- ZOO 6737 - Clinically Oriented Human Anatomy **4 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**

- PHI 5634 - Medical Ethics **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
or
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- MCB 6938 - Seminar **1 Credit Hour** (to be repeated by all students) or
- MCB 6314 - Industrial Perspectives Seminar **1 Credit Hours**

Elective Courses: 12 Credit Hours

Nonthesis students take 12 credit hours of electives with 6 credit hours from the Biomedical Specialization and 6 credit hours from the Microbiology Specialization.

Biomedical Specialization

- BSC 5418 - Tissue Engineering **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- PCB 5275 - Signal Transduction Mechanics **3 Credit Hours**
- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- PCB 5709C - Laboratory Virtual Simulations in Physiology **3 Credit Hours**
- PCB 5815 - Molecular Aspects of Obesity, Diabetes and Metabolism **3 Credit Hours**
- PCB 5834C - Advanced Human Physiology **4 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- PCB 5265 - Stem Cell Biology **3 Credit Hours**
- GEB 5516 - Technological Entrepreneurship **3 Credit Hours**
- Others: If approved by Graduate Committee

Microbiology Specialization

- MCB 5205 - Infectious Processes **3 Credit Hours**
- MCB 5505 - Molecular Virology **3 Credit Hours**
- MCB 5208 - Cellular Microbiology: Host-Pathogen Interactions **3 Credit Hours**
- MCB 6417C - Microbial Metabolism **3 Credit Hours**
- MCB 5932 - Current Topics in Molecular Biology **VAR Credit Hours**
- MCB 5415 - Cellular Metabolism **3 Credit Hours**
- MCB 5209 - Microbial Stress Response **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- PCB 5235 - Molecular Immunology **3 Credit Hours**
- Others: If approved by Graduate Committee

Capstone: 3 Credit Hours

An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

- MCB 6026 - Molecular Biology and Microbiology Capstone **3 Credit Hours** (minimum)

Capstone Process

Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee.

Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office.

When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

Capstone Defense

Note: The defense (presentation) must be held no later than one week before the final exam week.

The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion.

The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions).

Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Exam

Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications.

The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

Students without significant prior teaching experience, such as but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

In the final semester of study, nonthesis students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Deadlines

Biomedical Sciences MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saleh Naser PhD

Professor
saleh.naser@ucf.edu
UCF College of Medicine

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58

TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Sciences MS, Cancer Biology Track

College: Medicine	Degree: MS
Department: Burnett School of Biomedical Sciences	Option: Nonthesis
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Track Description

The Cancer Biology Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the cancer biology field and who may pursue doctoral training or professional education focused on medicine and cancer biology. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

Curriculum

The Cancer Biology Track in the Biomedical Sciences MS program requires a minimum of 33 credit hours of courses that includes a capstone experience. Students take 18 credit hours of required core courses, 12 credit hours of elective courses relevant to cancer biology and related disciplines, a capstone project focusing on cancer biology and an oral comprehensive exam.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

- ZOO 6737 - Clinically Oriented Human Anatomy **4 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
or
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- MCB 6938 - Seminar **1 Credit Hour** (to be repeated by all students) or
- MCB 6314 - Industrial Perspectives Seminar **1 Credit Hours**

Elective Courses: 12 Credit Hours

- PCB 5025 - Molecular and Cellular Pharmacology **3 Credit Hours**
- MCB 5415 - Cellular Metabolism **3 Credit Hours**
- PCB 5235 - Molecular Immunology **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- MCB 5505 - Molecular Virology **3 Credit Hours**
- PCB 5275 - Signal Transduction Mechanics **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- BSC 5436 - Biomedical Informatics : Structure Analysis **3 Credit Hours**
- PCB 5265 - Stem Cell Biology **3 Credit Hours**
- Other elective courses must be approved by the Program Coordinator.

Capstone: 3 Credit Hours

An in-depth current literature research report in the area of Cancer Biology will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

- MCB 6026 - Molecular Biology and Microbiology Capstone **3 Credit Hours** (minimum)

Capstone Process

Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee.

Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office.

When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

Capstone Defense

Note: The defense (presentation) must be held no later than one week before the final exam week.

The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion.

The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions).

Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Examination

Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications.

The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Deadlines

Cancer Biology	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saleh Naser PhD

Professor

saleh.naser@ucf.edu

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Sciences MS, Infectious Disease Track

College: Medicine	Degree: MS
Department: Burnett School of Biomedical Sciences	Option: Nonthesis
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Track Description

The Infectious Disease Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the infectious disease field and who may pursue doctoral training or professional education focused on medicine and infectious disease. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

Curriculum

The Infectious Disease Track in the Biomedical Sciences MS program requires a minimum of 33 credit hours of courses that includes a capstone experience. Students take 18 credit hours of required core courses, 12 credit hours of elective courses relevant to infectious disease, a capstone project focusing on infectious disease and an oral comprehensive exam.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

- ZOO 6737 - Clinically Oriented Human Anatomy **4 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- MCB 5208 - Cellular Microbiology: Host-Pathogen Interactions **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
or
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- MCB 6938 - Seminar **1 Credit Hour** (to be repeated by all students) or
or

- MCB 6314 - Industrial Perspectives Seminar **1 Credit Hours**

Elective Courses: 12 Credit Hours

- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- MCB 5205 - Infectious Processes **3 Credit Hours**
- MCB 5505 - Molecular Virology **3 Credit Hours**
- MCB 6417C - Microbial Metabolism **3 Credit Hours**
- MCB 5932 - Current Topics in Molecular Biology **VAR Credit Hours**
- MCB 5415 - Cellular Metabolism **3 Credit Hours**
- MCB 5209 - Microbial Stress Response **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- PCB 5235 - Molecular Immunology **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5275 - Signal Transduction Mechanics **3 Credit Hours**
- Other elective courses must be approved by the Program Coordinator.

Capstone: 3 Credit Hours

An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

- MCB 6026 - Molecular Biology and Microbiology Capstone **3 Credit Hours** (minimum)

Capstone Process

Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee.

Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office.

When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

Capstone Defense

Note: The defense (presentation) must be held no later than one week before the final exam week.

The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion.

The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions).

Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Examination

Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications.

The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.

- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Deadlines

Infectious Disease	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saleh Naser PhD
Professor
saleh.naser@ucf.edu

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Sciences MS, Integrated Medical Sciences Track

College: Medicine	Degree: MS
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Department: Burnett School of Biomedical Sciences	Option: Nonthesis
Graduate Program Handbook	

Track Description

The non-thesis Integrated Medical Sciences Track in the Biomedical Sciences MS program is designed to prepare students for acceptance into medical, dental, osteopathic, and/or other related professional schools of their choice by providing them with an opportunity to take two first-year medical school courses with the medical students in combination with graduate courses in biomedical sciences.

Curriculum

The Integrated Medical Sciences Track in the Biomedical Sciences MS program requires a minimum of 33 credit hours of courses that includes a capstone experience. Students take 18 credit hours of required core courses including two medical school courses (5 credits each), 12 credit hours of graduate elective courses in biomedical sciences, a capstone project focusing on integrated medical sciences, and an oral comprehensive exam on the capstone project.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—18 Credit Hours

- BMS 6001 - Cellular Function and Medical Genetics **5 Credit Hours** (HB-1, Med-Ed)
- BMS 6006 - Health and Disease **5 Credit Hours** (HB-3, Med-Ed)
- MCB 6938 - Seminar **1 Credit Hour** (to be repeated by all students, except those taking the 7-credit option from the list below as these students will only need 1 credit of Seminar to achieve a total of 18 credits of required course work for this track) or
- IDS 7680 - Seminar **1 Credit Hour** (to be repeated by all students, except those taking the 7-credit option from the list below as these students will only need 1 credit of Seminar to achieve a total of 18 credits of required course work for this track)

Student take one of the following three options:

- PCB 5834C - Advanced Human Physiology **4 Credit Hours** and
- PCB 5709C - Laboratory Virtual Simulations in Physiology **3 Credit Hours** (Note: Students selecting the 7 credit option will only have to take 1 credit hour of Seminar.)
- PHT 6115C - Gross Anatomy/Neuroscience I **6 Credit Hours** and
- PHT 6115L - Gross Anatomy/Neuroscience I Lab **2 Credit Hours**
- BSC 5665 - Clinical Embryology and Congenital Malformations **3 Credit Hours** and

Elective Courses—12 Credit Hours

Students take 12 credit hours of electives with 6 credit hours from the Biomedical Specialization and 6 credit hours from the Microbiology Specialization.

Biomedical Specialization

- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- PCB 5265 - Stem Cell Biology **3 Credit Hours**
- PCB 5275 - Signal Transduction Mechanics **3 Credit Hours**
- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- PCB 5709C - Laboratory Virtual Simulations in Physiology **3 Credit Hours**
- PCB 5815 - Molecular Aspects of Obesity, Diabetes and Metabolism **3 Credit Hours**
- PCB 5834C - Advanced Human Physiology **4 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- GEB 5516 - Technological Entrepreneurship **3 Credit Hours**
- ZOO 5748C - Clinical Neuroanatomy **5 Credit Hours**
- ZOO 5749C - Clinical Neuroscience **5 Credit Hours**
- Other courses may be substituted with approval by the graduate committee.

Microbiology Specialization

- MCB 5205 - Infectious Processes **3 Credit Hours**
- MCB 5505 - Molecular Virology **3 Credit Hours**
- MCB 5208 - Cellular Microbiology: Host-Pathogen Interactions **3 Credit Hours**
- MCB 5654 - Applied Microbiology **3 Credit Hours**
- MCB 6417C - Microbial Metabolism **3 Credit Hours**
- MCB 5932 - Current Topics in Molecular Biology **VAR Credit Hours**
- MCB 5415 - Cellular Metabolism **3 Credit Hours**
- MCB 5209 - Microbial Stress Response **3 Credit Hours**
- PCB 5235 - Molecular Immunology **3 Credit Hours**
- Other courses may be substituted with approval by the graduate committee.

Capstone—3 Credit Hours

The Capstone Project for the IMS Track is customizable based on student needs. Options include the following:

- Scholarly in-depth literature review in biomedical and/or clinical sciences (report required)
- Physician-Shadowing Experience (report required)
- Service-Learning/Volunteer Work Experience (report required)
- Laboratory Research (report required)
- Other (must be pre-approved by the program coordinator/director) (report required)
- MCB 6026 - Molecular Biology and Microbiology Capstone **3 Credit Hours** (minimum)

The Capstone Process

Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty member to serve on the capstone evaluation committee.

Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office.

When the student is ready to defend the Capstone project the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

The Capstone Report

Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

The Capstone Defense

Note: The defense (presentation) must be held no later than one week before the final exam week.

The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion.

The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions).

Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Exam

Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications. The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee.

Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Deadlines

Integrated Medical Sciences	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Steven Ebert PhD
Associate Professor
steven.ebert@ucf.edu
BBS 421

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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UCF Student Financial Assistance

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Fax: 407-823-5241
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<http://finaid.ucf.edu>

Biomedical Sciences MS, Metabolic and Cardiovascular Sciences Track

College: Medicine	Degree: MS
Department: Burnett School of Biomedical Sciences	Option: Nonthesis
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Track Description

The Metabolic and Cardiovascular Sciences Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the metabolic and cardiovascular sciences field and who may pursue doctoral training or professional education focused on medicine and metabolic and cardiovascular sciences. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

Curriculum

The Metabolic and Cardiovascular Sciences Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the metabolic and cardiovascular sciences field and who may pursue doctoral training or professional education focused on medicine and metabolic and cardiovascular sciences.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

- ZOO 6737 - Clinically Oriented Human Anatomy **4 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- PCB 5815 - Molecular Aspects of Obesity, Diabetes and Metabolism **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
or
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- MCB 6938 - Seminar **1 Credit Hour** (to be repeated by all students) or
- MCB 6314 - Industrial Perspectives Seminar **1 Credit Hours**

Elective Courses: 12 Credit Hours

- MCB 5415 - Cellular Metabolism **3 Credit Hours**
- PCB 5834C - Advanced Human Physiology **4 Credit Hours**
- PCB 5265 - Stem Cell Biology **3 Credit Hours**
- CHM 5305 - Bioconjugate Chemistry **3 Credit Hours**
- BSC 5436 - Biomedical Informatics : Structure Analysis **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- PCB 5709C - Laboratory Virtual Simulations in Physiology **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- PET 6366 - Exercise, Nutrition and Weight Control **3 Credit Hours**
- PET 6388 - Cardiovascular Physiology **3 Credit Hours**
- Other elective courses must be approved by the Program Coordinator.

Capstone: 3 Credit Hours

An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

- MCB 6026 - Molecular Biology and Microbiology Capstone **3 Credit Hours** (minimum)

Capstone Process

Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee.

Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office.

When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the

project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

Capstone Defense

Note: The defense (presentation) must be held no later than one week before the final exam week.

The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion.

The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions).

Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Examination

Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications.

The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Deadlines

Metabolic and Cardiovascular Sciences	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saleh Naser PhD

Professor
saleh.naser@ucf.edu

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Biomedical Sciences MS, Neuroscience Track

College: Medicine	Degree: MS
Department: Burnett School of Biomedical Sciences	Option: Nonthesis
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Track Description

The Neuroscience Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the neuroscience field and who may pursue doctoral training or professional education focused on medicine and neuroscience. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

Curriculum

The Neuroscience Track in the Biomedical Sciences MS program requires a minimum of 33 credit hours of courses that includes a capstone experience. Students take 18 credit hours of required core courses, 12 credit hours of elective courses relevant to neuroscience, a capstone project focusing on neuroscience and an oral comprehensive exam.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

- ZOO 6737 - Clinically Oriented Human Anatomy **4 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- PCB 5837 - Cellular and Molecular Neuroscience **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
or
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- MCB 6938 - Seminar **1 Credit Hour** (to be repeated by all students) or
- MCB 6314 - Industrial Perspectives Seminar **1 Credit Hours**

Elective Courses: 12 Credit Hours

- SPA 6417 - Cognitive/Communicative Disorders **3 Credit Hours**
- PCB 5275 - Signal Transduction Mechanics **3 Credit Hours**
- ZOO 5748C - Clinical Neuroanatomy **5 Credit Hours**
- ZOO 5749C - Clinical Neuroscience **5 Credit Hours**

- CAP 6616 - Neuroevolution and Generative and Developmental Systems **3 Credit Hours**
- PCB 5838 - Cellular and Molecular Basis of Brain Functions **3 Credit Hours**
- BSC 5418 - Tissue Engineering **3 Credit Hours**
- PCB 5709C - Laboratory Virtual Simulations in Physiology **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- PCB 5834C - Advanced Human Physiology **4 Credit Hours**
- EXP 5254 - Human Factors and Aging **3 Credit Hours**
- IDS 6916 - Simulation Research Methods and Practicum **3 Credit Hours**
- EXP 5208 - Sensation and Perception **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**
- EXP 6116 - Visual Performance **3 Credit Hours**
- EXP 6506 - Human Cognition and Learning **3 Credit Hours**
- PSB 6348 - The Neuroanatomical Basis of Psychological Function **3 Credit Hours**
- PSB 6328 - Psychophysiology **3 Credit Hours**
- PSB 6352 - Neuroimaging Design and Analysis Methods **3 Credit Hours**
- Other elective courses must be approved by the Program Coordinator.

Capstone: 3 Credit Hours

An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

- MCB 6026 - Molecular Biology and Microbiology Capstone **3 Credit Hours** (minimum)

Capstone Process

Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee.

Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office.

When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

Capstone Defense

Note: The defense (presentation) must be held no later than one week before the final exam week.

The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion.

The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions).

Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Examination

Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications.

The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

In the final semester of study students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.

- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Deadlines

Neuroscience	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saleh Naser PhD
Professor
saleh.naser@ucf.edu

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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finaid@ucf.edu
<http://finaid.ucf.edu>

Biotechnology MS

College: Medicine	Degree: MS
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Department: Burnett School of Biomedical Sciences	Option: Thesis
Program Websites: https://med.ucf.edu/biomed/graduate-programs/	
Graduate Program Handbook	

Program Description

The Master of Science in Biotechnology program in the College of Medicine will prepare students to function in the industrial biotechnology environment. This program is designed to give students broad knowledge and training in the scientific and practical aspects of biotechnology.

It involves innovative, hands-on and multidisciplinary learning approaches to educate and train students in scientific aspects of biotechnology. The courses and research training required of all students in this program are designed to develop independent thinking, teamwork and communication skills, which are highly desirable in the biotechnology industry. Students will be provided an industrial perspective and an understanding of product development at the same time as they are trained in the biotechnology techniques required for such development.

Curriculum

The Master of Science in Biotechnology program consists of a minimum of 30 semester credit hours of graduate courses offered by the Burnett School of Biomedical Sciences in the College of Medicine that includes 21 credit hours minimum of required courses, 3 credits of restricted electives, and 6 credit hours of thesis research as detailed below.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

What makes this program unique is the focus on practical training offered to graduate students through master's thesis research in molecular biotechnology to perform jobs in a laboratory environment that require scientific talent.

Required Courses—21 Credit Hours

Core—19 Credit Hours Minimum

Students must take the following courses plus at least two credit hours of graduate seminar.

- MCB 5722C - Methods in Biotechnology **4 Credit Hours** or
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**

- BSC 6432 - Biomedical Sciences I **5 Credit Hours**
- BSC 6433 - Biomedical Sciences II **5 Credit Hours**
- BSC 6431 - Practice of Biomedical Sciences **3 Credit Hours**

- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours** or
- BSC 5418 - Tissue Engineering **3 Credit Hours** or
- MCB 6417C - Microbial Metabolism **3 Credit Hours** or
- PCB 5025 - Molecular and Cellular Pharmacology **3 Credit Hours**

Graduate Seminars—2 Credit Hours

Students will participate in at least two graduate seminar courses that will prepare them for making professional presentations with an emphasis in biotechnology. The courses will involve the participation of speakers from the biotechnology industry with emphasis on an industrial perspective on biotechnology applications and product development.

- MCB 6314 - Industrial Perspectives Seminar **1 Credit Hours**
OR
- MCB 6938 **1 Credit Hour** (1 semester only)

Elective Courses—3 Credit Hours

Students will select three credit hours of restricted electives from the list below.

- BSC 5418 - Tissue Engineering **3 Credit Hours**
- BSC 5436 - Biomedical Informatics : Structure Analysis **3 Credit Hours**
- BSC 6407C - Laboratory Methods in Molecular Biology **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- MCB 5205 - Infectious Processes **3 Credit Hours**
- MCB 5208 - Cellular Microbiology: Host-Pathogen Interactions **3 Credit Hours**
- MCB 5209 - Microbial Stress Response **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- MCB 5415 - Cellular Metabolism **3 Credit Hours**
- MCB 5505 - Molecular Virology **3 Credit Hours**
- MCB 5722C - Methods in Biotechnology **4 Credit Hours**
- MCB 5932 - Current Topics in Molecular Biology **VAR Credit Hours**
- MCB 6226 - Molecular Diagnostics **3 Credit Hours**
- MCB 6417C - Microbial Metabolism **3 Credit Hours**
- PCB 5527 - Genetic Engineering and Biotechnology **3 Credit Hours**
- PCB 5025 - Molecular and Cellular Pharmacology **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5596 - Biomedical Informatics: Sequence Analysis **3 Credit Hours**
- PCB 5709C - Laboratory Virtual Simulations in Physiology **3 Credit Hours**
- PCB 5834C - Advanced Human Physiology **4 Credit Hours**
- PCB 5937 - Special Topics: Human Endocrinology **3 Credit Hours**
- PCB 6528 - Plant Molecular Biology **3 Credit Hours**
- PCB 6595 - Regulation of Gene Expression **3 Credit Hours**
- PCB 5838 - Cellular and Molecular Basis of Brain Functions **3 Credit Hours**
- PCB 5265 - Stem Cell Biology **3 Credit Hours**
- PCB 5815 - Molecular Aspects of Obesity, Diabetes and Metabolism **3 Credit Hours**
- ZOO 5745C - Neuroanatomical Pathways and their Neurotransmitters **4 Credit Hours**
- ZOO 5748C - Clinical Neuroanatomy **5 Credit Hours**
- GEB 5516 - Technological Entrepreneurship **3 Credit Hours**
- Others: If approved by the Graduate Committee

Thesis—6 Credit Hours

Students will take a minimum of six credits of thesis research (MCB 6971) to complete their research and submit their thesis specializing in biotechnology research. Students are expected to have an in-depth discussion with at least three faculty members before choosing a laboratory for thesis research. The student and the Thesis Adviser/Major Professor will jointly recommend an advisory committee comprised of at least three members. The committee composition must reflect expertise relevant to the student's thesis research and must be approved by the Graduate Committee. Students switching to change the composition of the Thesis Advisory Committee must also obtain approval from the Graduate Committee.

Thesis Proposal

The thesis proposal defense requirement should be met and passed successfully no later than the end of the summer of the first year in the program. Students will not be allowed to register for courses for the Fall semester of their second year until this requirement is fulfilled. The Thesis Proposal requirement includes: a written 5-page thesis proposal, a thesis proposal defense in front of the thesis committee, and questions by the thesis committee to test the student's understanding of the basic concepts in the field and relevant applications. The student will be evaluated on performance in all three sections. Should the student fail, a second opportunity will be provided within 2 weeks of the first attempt. A second failure will result in dismissal from the program.

An oral thesis defense is required. The defense will be in the format of:

- A 50-minute presentation of the thesis work, including a 5-minute introduction
- A 10-minute free period for the general audience to ask questions
- A 1-hour closed-door examination by the Thesis Advisory Committee and the program faculty present

The thesis should be of significant scope and depth such that the work has made advances in the area of biotechnology. The MS thesis research must generate sufficient quantity and quality data to support the submission of a minimum of one manuscript. Approval of the final thesis will require consent from the majority of the Program Faculty who choose to review the thesis, inclusive of the Thesis Advisory Committee. Faculty members with dissenting vote on the thesis must provide written justification. Scientific journal review criteria will be used as guidelines by the faculty to evaluate the final thesis for its appropriateness for publication in the target journal.

Students will be evaluated on the progress in thesis research by the thesis advisory committee for fall and spring. Two consecutive unsatisfactory evaluations will result in dismissal from the program.

Comprehensive Examination

Students must pass a comprehensive exam to qualify for the Master of Science degree.

Students must successfully pass an oral comprehensive examination to test the understanding of the basic concepts in the field and relevant applications. The Comprehensive Examination will be conducted during the thesis proposal defense. The exam will be administered by the thesis committee. Should the student fail this exam, a second opportunity will be provided within 2 weeks of the first attempt. A second failure will result in dismissal from the program.

Independent Learning

The required thesis allows the student to engage in independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV

Personal interviews are required. Applicants who do not have a competitive GPA, GRE, or MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Deadlines

Biotechnology MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

All students receiving assistantships must enroll full time.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saleh Naser PhD

Professor

saleh.naser@ucf.edu

UCF College of Medicine

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu
http://finaid.ucf.edu

Business Administration MBA

College: Business Administration	Degree: MBA
Department: Business Administration	Option: Nonthesis
Program Websites: http://www.ucfmba.ucf.edu	

Program Description

The College of Business Master of Business Administration (MBA) degree is accredited by AACSB International and offers four options for study: An Executive MBA, the college's flagship MBA, taught at the UCF Downtown campus; a Professional Part-Time MBA taught at the UCF Downtown campus and regional campuses; a Professional Full-Time MBA taught at the UCF Downtown campus; and a part-time Evening MBA taught at the main campus.

The MBA program allows students to apply advanced theoretical concepts and knowledge from all functional areas of business through an analytical, decision-making process that focuses on solving practical problems. Students in the MBA program also learn to efficiently access, retrieve, and analyze information through technology. The program promotes the use of networking, leadership, and interpersonal competencies to develop and sustain effective relationships with peers, and to create an appreciation for the value of a diverse workforce.

Program Tracks

- Business Administration MBA, Evening Track
- Business Administration MBA, Executive Track
- Business Administration MBA, Professional Track

Foundation Prerequisites

To help prepare you for the start of your MBA program, UCF offers online learning modules in accounting, economics, finance, and business statistics. These are offered through McGraw-Hill's Connect online learning management system and are designed to help you build the foundational knowledge needed to succeed in the MBA program at UCF. All MBA students are required to take the Initial Assessments for each of the subject areas, and possibly purchase the online learning modules depending on their Initial Assessment results. For more information on the MBA Foundation Prerequisites, click here: <https://business.ucf.edu/graduate-programs/>.

Curriculum

The Master's in Business Administration requires a total of 39 credit hours, of which 30 credit hours are professional core courses and 9 credit hours are electives.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

The MBA curriculum provides a challenging and creative learning environment in an intensive program of study that has a broad-based administrative emphasis. Recognizing that the management methods of tomorrow may bear little resemblance to techniques in current use, the program emphasizes sound general principles and decision-making techniques that provide a base for continued learning and professional development.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must select a track in the MBA program. Tracks have different admission requirements, start dates and deadlines so please check the track for specific requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Executive & Professional MBA

Robin Hofler
Robin.Hofler@ucf.edu

Evening MBA

Kelley Dietrich
cbagrad@ucf.edu

Graduate Admissions

Mike Burke

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Business Administration MBA, Evening Track

College: Business Administration	Degree: MBA
Department: Business Administration	Option: Nonthesis
Program Websites: http://www.ucfmba.ucf.edu	
Graduate Program Handbook	

Track Description

The Evening MBA program allows students to apply advanced theoretical concepts and knowledge from all functional areas of business through an analytical, decision-making process that focuses on solving practical problems. Students in this program also learn to efficiently access, retrieve, and analyze information through technology.

The program promotes the use of networking, leadership, and interpersonal competencies to develop and sustain effective relationships with peers and to create an appreciation for the value of a diverse workforce.

The Evening MBA begins in the fall term only with a firm deadline of July 1. Program highlights include:

- Evening course offerings to accommodate working professionals
- Choice of up to two elective options outside of the College of Business
- Part-time only enrollment (maximum of 6 credit hours per term)

Curriculum

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

The Evening MBA is targeted toward applicants who wish to obtain a MBA degree while continuing in their career path. This program offers evening courses. Students attend on a part-time basis only, taking 6 credit hours per term.

Required Courses: 30 Credit Hours

The MBA professional core consists of advanced course work that substantially extends and applies knowledge developed in the student's undergraduate degree and career, with decision-making tools courses and decision-application courses. In addition to the 30 required credit hours, the MBA program also requires the student to take three elective courses (9 credit hours). The MBA program does not require a thesis or comprehensive exam.

MBA Professional Core I: Decision-Making Tools: 18 Credit Hours

*Students who wish to sit for the CPA exam must substitute appropriate coursework for ACG 6425.

- ACG 6425 - Managerial Accounting Analysis **3 Credit Hours** (*Spring only)
- BUL 5332 - Advanced Business Law Topics **3 Credit Hours** (Fall only)
- ECO 6115 - Economic Analysis of the Firm **3 Credit Hours** (Spring only)
- ECO 6416 - Applied Business Research Tools **3 Credit Hours** (Fall only)
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours** (Fall only)
- GEB 6365 - International Business Analysis **3 Credit Hours** (Spring only)

MBA Professional Core II: Decision Applications: 12 Credit Hours

Core I is a prerequisite for Core II courses. FIN 6406 and MAR 6816 must be completed prior to MAN 6721. MAR 6466 must be completed the semester after ECO 6416 is completed.

- FIN 6406 - Strategic Financial Management **3 Credit Hours** (Fall only)
- MAR 6816 - Strategic Marketing Management **3 Credit Hours** (Fall only)
- MAR 6466 - Strategic Supply Chain and Operations Management **3 Credit Hours** (Spring only)
- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours** (grade of "B-" (2.75) or better is required) (Spring only)

MBA Electives: 9 Credit Hours

Electives may include approved 5000- and 6000-level courses from the College of Business or approved courses taken outside of the College of Business. At least one course must come from within the College of Business, and a

maximum of two courses or six credit hours can be taken outside the College of Business **with permission from the Graduate Business Programs Office and the department offering the course prior to taking the course.**

Check all elective course prerequisites in the graduate catalog at www.graduatecatalog.ucf.edu.

Evening MBA Schedule

All Core I courses must be completed prior to Core II courses with the exception of MAR 6466 and GEB 6365 being taken in the same semester. The capstone course for the program (MAN 6721) must be taken after the completion of all Core I requirements and FIN 6406 and MAR 6816. MAR 6466 must be completed in the semester after ECO 6416 is completed.

Year One:

- Fall: BUL 5332 and MAN 6245
- Spring: ECO 6115 and ACG 6425
- Summer: Elective #1

Year Two:

- Fall: ECO 6416 and Elective #2
- Spring: MAR 6466 and GEB 6365

Year Three:

- Fall: MAR 6816 and FIN 6406
- Spring: MAN 6721 and Elective #3

Required courses are only offered in the terms they are listed above. Any variance from this schedule will delay graduation.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

THE APPLICATION AND ALL SUPPORTING DOCUMENTS (*this includes all transcripts, essay, three letters of recommendation, resume, TOEFL or IELTS exam scores (if applicable) and international transcript evaluation (if applicable)*) **MUST BE RECEIVED AND UPDATED BY THE POSTED APPLICATION DEADLINE OF JULY 1, IN ORDER TO BE REVIEWED.** Applications submitted after the deadline will be moved to the following fall semester. Supporting documents submitted after the deadline will cause an application to be considered incomplete by the deadline and denied as a result.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Three letters of recommendation. At least one recommendation must be from a current or previous supervisor. Additional letters should be from professional sources: supervisors, professors, colleagues. No personal recommendations will be accepted. Please use the online recommendation system that is part of the online application to submit this requirement.
- Prepare a goal statement that answers the following questions:
 1. Describe what motivated you either professionally or personally to pursue a master's degree.
 2. Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.

3. Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Upload your current resume to your application before submitting. You must show at least two years of full-time professional work experience, detailing your duties and responsibilities, and include start/end dates of employment.
 - A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign Language (TOEFL) is required if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
 - Prior to being considered for admission into the Evening MBA program, applicants are required to complete a free online assessment in each of the functional areas of accounting, economics, finance, and business statistics. A score of 70 percent or higher in each area will be required in order to enroll in the associated graduate classes if accepted into the program. Applicants who do not earn a 70 percent or higher in each section and are being accepted into the program will be required to complete the online modules associated with the below 70 percent score as a restriction to admission. Click on the link for detailed information regarding the assessments and enrolling in the on-line modules. [MBA Online Modules](#)
 - Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Evening	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1		
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Kelley Dietrich
cbagrad@bus.ucf.edu

Graduate Admissions

Mike Burke
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

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<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Business Administration MBA, Executive Track

College: Business Administration	Degree: MBA
Department: Business Administration	Option: Nonthesis
Program Websites: http://www.ucfmba.ucf.edu	
Graduate Program Handbook	

Track Description

The UCF Executive MBA (EMBA) is accredited by AACSB International and is the college's flagship MBA program. The EMBA program is designed to prepare experienced professionals for the challenges they will face as they work and advance in their careers, teaching them skills across all functional areas of business that will make them an increasingly valuable member of their organization.

The program is a limited enrollment, cohort-based program that allows participants to continue their full-time careers while earning an MBA degree.

- A 19-month program offered on the UCF Downtown Orlando campus.
- Limited class size, cohort program
- Classes meet, on average, one Friday and three Saturdays per month, 8:00am-5:00pm
- A week long International Residency
- Minimum of five years of professional work experience required; 10 years preferred
- Personal interview required for admission

Courses expose participants to new methods, concepts, and tools that will enhance their business and leadership skills. Innovative teaching methodologies such as team-based projects, interdisciplinary case studies, simulations, debate activities, and self-assessment exercises are used to enhance the learning experience. The EMBA also incorporates the interactions and backgrounds of the participants as an integral part of the learning experience.

All classes are held at the UCF Downtown Orlando campus. Our classrooms are specifically designed to provide the best in learning environments. The handicap accessible classrooms boast the latest in audio/video equipment with electrical hookup and wireless Internet access. With newly engineered acoustics, lighting and room design, every seat has an excellent view of the speaker and presentation. The UCF Executive MBA program has created the finest combination of skilled administrators, with leading faculty providing participants with a high level of personal attention from the moment they apply.

This program is a professional program with a market rate tuition and is considered a full-time program. The tuition is the same for Florida residents and nonresidents. Please visit business.ucf.edu/degree/ucf-mba/ for more information.

Foundation Prerequisites

To help prepare you for the start of your MBA program, UCF offers online learning modules in accounting, economics, finance, and business statistics. These are offered through McGraw-Hill's Connect online learning management system and are designed to help you build the foundational knowledge needed to succeed in the MBA program at UCF. All MBA students are required to take the Initial Assessments for each of the subject areas, and possibly purchase the online learning modules depending in their Initial Assessment results. For more information on the MBA Foundation Prerequisites, click here: <https://business.ucf.edu/graduate-programs/>.

Curriculum

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 30 Credit Hours

- ECO 6115 - Economic Analysis of the Firm **3 Credit Hours**
- ACG 6425 - Managerial Accounting Analysis **3 Credit Hours**
- ECO 6416 - Applied Business Research Tools **3 Credit Hours**
- FIN 6406 - Strategic Financial Management **3 Credit Hours**
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- MAR 6816 - Strategic Marketing Management **3 Credit Hours**
- MAR 6466 - Strategic Supply Chain and Operations Management **3 Credit Hours**
- BUL 6444 - Law and Ethics **3 Credit Hours**
- GEB 6365 - International Business Analysis **3 Credit Hours**
- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours**

Restricted Elective Courses: 9 Credit Hours

Students take three graduate courses, selected by the program advisor. Approved graduate transfer courses may substitute for the MBA electives and can include non-business electives.

- FIN 6465 - Financial Analysis Seminar **3 Credit Hours**
- MAN 6448 - Conflict Resolution and Negotiation **3 Credit Hours**
- MAN 6296 - Executive Leadership **3 Credit Hours**

International Residency

As part of the GEB 6365 - International Business Analysis course, EMBA students are required to participate in a week long international residency. Typically the trip includes 2 countries with visits to local and multinational companies, and immersion into the countries culture.

Capstone Course

The UCF MBA capstone course, MAN 6721 - Applied Strategy and Business Policy, is required for all MBA students. This capstone course integrates the various functional disciplines in business administration. It focuses on the theories and frameworks in the field of strategic management, and requires a minimum grade of "B-" (2.75).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
 - Describe what motivated you either professionally or personally to pursue a master's degree.

- Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
- Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. **One recommendation must be from a previous or current supervisor.**
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English *and* you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. Assuming you meet our admission requirements, you will be contacted to schedule an interview. Admission decisions are made after the interview and review process are complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Application Deadlines

Executive	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1		
The Executive MBA is taught at the UCF Downtown campus each fall term.				
International Applicants		Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships

are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Robin Hofler

robin.hofler@ucf.edu

Telephone: 407-235-3913

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Business Administration MBA, Professional Track

College: Business Administration	Degree: MBA
Department: Business Administration	
Program Websites: http://www.ucfmba.ucf.edu	
Graduate Program Handbook	

Track Description

The Professional MBA (PMBA) combines the rigor and depth of a traditional MBA program and offers two scheduling options: students can attend part-time in the evening for 24 months so as not to interrupt their full-time career, or they can attend full-time during the day for 12 months.

The 24-month part-time PMBA is offered at the UCF Downtown Campus each summer. It is also offered at a regional campus location on a rotational basis most fall terms providing a convenient location to working professionals in Central Florida.

The 12-month full-time PMBA is offered at the UCF Downtown Campus each fall.

The PMBA enrolls a limited-size group of professionals from a variety of organizations and industries to come together and challenge their intellect, enhance their capabilities and broaden their perspectives while growing their professional network. The innovative curriculum equips program participants with the analytical tools, latest business techniques, and skills needed to succeed in today's competitive marketplace while honing their business knowledge, teamwork, critical thinking and decision making skills. The program integrates the students' professional experience allowing them to immediately apply newly-acquired knowledge on the job. PMBA faculty members who share their expertise and provide insights into real-world business issues use consultative teaching approaches combining lectures, case studies, discussion forums and presentations to maximize learning. Participants will also find a high level of personal attention from PMBA administrators from the moment they apply.

- 24-month part-time or 12-month full-time options
- Minimum 3 years of work experience required for the **part-time** PMBA
- Minimum 1-3 years of work experience OR earned graduate degree or currently enrolled in a graduate program required for the **full-time** PMBA
- Limited class size, cohort program
- Innovative curriculum (consultative and case-based applied approach)
- Personal interview required for admission

This program is a professional program with a market rate tuition. The tuition is the same for Florida residents and non-residents. Please visit <https://business.ucf.edu/centers-institutes/executive-development-center/ucf-mba-comparison-page/> for more information.

This program is accredited by AACSB International.

Foundation Prerequisites

To help prepare you for the start of your MBA program, UCF offers online learning modules in accounting, economics, finance, and business statistics. These are offered through McGraw-Hill's Connect online learning management system

and are designed to help you build the foundational knowledge needed to succeed in the MBA program at UCF. All MBA students are required to take the Initial Assessments for each of the subject areas, and possibly purchase the online learning modules depending in their Initial Assessment results. For more information on the MBA Foundation Prerequisites, click here: <https://business.ucf.edu/graduate-programs/>.

Curriculum

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 30 Credit Hours

- ECO 6115 - Economic Analysis of the Firm **3 Credit Hours**
- ACG 6425 - Managerial Accounting Analysis **3 Credit Hours**
- ECO 6416 - Applied Business Research Tools **3 Credit Hours**
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- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours**

Restricted Elective Courses: 9 Credit Hours

- FIN 6465 - Financial Analysis Seminar **3 Credit Hours**
- MAN 6448 - Conflict Resolution and Negotiation **3 Credit Hours**
- MAN 6296 - Executive Leadership **3 Credit Hours**

Capstone Course

The UCF MBA capstone course, MAN 6721 - Applied Strategy and Business Policy, is required for all MBA students. This capstone course integrates the various functional disciplines in business administration. It focuses on the theories and frameworks in the field of strategic management, and requires a minimum grade of "B-" (2.75).

Application Requirements

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In addition to the general UCF graduate application requirements, applicants to this program must provide:

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- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
 - Describe what motivated you either professionally or personally to pursue a master's degree.
 - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.

- Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. **One recommendation must be from a previous or current supervisor.**
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English *and* you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.
- Review Process. Your application will be reviewed once all required documents are received. Assuming you meet our admission requirements, you will be contacted to schedule an interview. Admission decisions are made after the interview and review process are complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Application Deadlines

Professional	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1		Apr 1
<p>The Part-Time PMBA starting in Summer 2021 will be taught at the UCF Downtown Campus.</p> <p>The Part-Time PMBA starting Fall 2021 will be taught at the Valencia West Campus.</p> <p>The Full-Time PMBA starting in Fall 2021 will be taught at the UCF Downtown Campus.</p>				
International Applicants		Jan 15		
<p>*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.</p>				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Robin Hofler

robin.hofler@ucf.edu
Telephone: 407-235-3913
DTC 201B

Graduate Admissions

Mike Burke

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finaid@ucf.edu
http://finaid.ucf.edu

Career and Technical Education MA ►

College: Community Innovation and Education	Degree: MA
Department: Educational Leadership and Higher Education	Option: Research Report or Direct Field Experience
Program Website: https://ccie.ucf.edu/elhe/career-and-technical-education/	
Graduate Program Handbook	

Program Description

The Career and Technical Education MA program prepares students pursuing leadership and administrative positions in career and technical education (CTE) as well as workforce education, talent development, and corporate training. This program is designed for individuals whose goal is to become a manager, coordinator, director, curriculum specialist, dean, or lead faculty in career and workforce education programs in various disciplines located in the following institutions: secondary and post-secondary schools (technical centers, community colleges, state colleges, and universities); vocational rehabilitation colleges; corporations and industry; military; and professional associations and organizations.

CTE Graduate Program Vision Statement: All CTE leaders are academic scholars.

CTE Graduate Program Mission Statement: To develop effective educational leaders who are career and workforce education expert scholars.

Our Goal: The Career and Technical Education graduate programs place an emphasis on the students' development of academic research and scholarly writing that contribute to strong leadership skills in their individual fields of study.

Please note: Career and Technical Education (MA) may be completed fully online, although not all elective course options or course prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF Online may enroll with a reduction in campus-based fees.

This program is not an initial teacher professional education certificate program.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>.

UCF is authorized to provide online courses or instruction to students in all states. Refer to State Authorizations for current information.

Curriculum

The Career and Technical Education MA program requires a minimum of 39 credit hours beyond the bachelor's degree, including 18 credit hours of career education core courses and 18 credit hours of advisor-approved courses focused on

specialization within a discipline. The program also requires an internship/directed-field experience course (3 credit hours) OR a research report course (3 credit hours). Passing a comprehensive examination at the end of the program is a graduation requirement.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Description

The six Career Education Core classes combine to provide students with an in-depth analysis of career education from its inception to future trends. These courses will provide a solid foundation in career and technical/workforce education. With 18 credit hours (six courses) in career education graduate courses and 18 credit hours (six courses) in a discipline-specific field of study, the student will be considered a subject matter expert in career and technical education AND a subject matter expert in a discipline-specific field.

This program provides the flexibility of choosing electives for subject matter expertise in Career and Technical Education (CTE), in Educational Foundation, or in a discipline-specific graduate certificate that allows for a personalized degree program.

The internship/directed-field experience course takes place in a face-to-face or web-based authentic setting in which students must apply, reflect upon, and refine knowledge and skills acquired in the program. The internship experience gives students insight and hands-on experience while being observed and mentored by a supervising teacher and UCF faculty member. In lieu of the internship, students may choose the research report course option, which may be helpful if considering an educational pathway to a doctorate.

Required Courses—18 Credit Hours

Career Education Core - 18 Credit Hours

- ECW 5561 - Student Guidance in the Career/Workforce Program **3 Credit Hours**
- ECW 6067 - History of Career Education in the United States **3 Credit Hours**
- ECW 6105 - Career Education Curriculum Planning and Implementation **3 Credit Hours**
- ECW 6268 - School, College, and Career Readiness **3 Credit Hours**
- ECW 6666 - Issues in Career Education **3 Credit Hours**
- ECT 6791 - Research in Career Education **3 Credit Hours**

Elective Courses in Specialization—18 Credit Hours

Area of specialization may include career and technical education (CTE), health, technical training, corporate training, adult education, business education, graduate certificates, or another area approved by the advisor.

Please note: Some elective courses shown may be applied to the Local Director for Career and Technical Education Certification through the State of Florida. For more information, please review the Florida Department of Education teacher certification website.

Consult with an advisor to complete the Graduate Plan of Study.

Students who wish to specialize in career and technical education may choose from the following list of CTE elective courses:

- BTE 6935 - Seminar in Business Education **3 Credit Hours**
- ECW 5207 - Management of Career Education Programs **3 Credit Hours**
- ECW 6205 - Administration of Local Career Education Programs **3 Credit Hours**

- ECW 6206 - Supervision in Local Career and Technical Education Programs **3 Credit Hours**
- ECW 6695 - School/Community Relations for Career and Technical Education Programs **3 Credit Hours**
- ECW 5265 - Experiential Learning in Career and Workforce Education Programs **3 Credit Hours**

Education Foundation Electives

Students may choose from this list if planning to work in a traditional educational institution and wish to work with postsecondary students at the administrative level.

- IDS 6504 - Adult Learning **3 Credit Hours**
- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6886 - Multicultural Education **3 Credit Hours**
- ECW 5265 - Experiential Learning in Career and Workforce Education Programs **3 Credit Hours**

Research Report Option—3 Credit Hours

This research report course is an option for students who wish to go onto to a doctorate program. The course consists of further study into research and scholarly writing.

- ECT 6909 - Research Report **Credit Hours**

Internship Option—3 Credit Hours

The internship course is a learning activity that takes place in a face-to-face or web-based authentic setting in which students must apply, reflect upon, and refine knowledge and skills acquired in the program.

- ECT 6946 - Internship **Credit Hours**

Application Requirements

The GRE exam is **not** required for admission. All requested materials must be submitted by the established deadline.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. The GRE exam is **not** required for admission. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Essay, 1-2 pages, on career goals and program alignment.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Career and Technical Education MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
Late applications will be considered on a space-available basis.				
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Lisa Martino, PhD

Lecturer
 CTE Academic Program Coordinator
 lisa.martino@ucf.edu
 Telephone: 407-823-6184
 ED 220C

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
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UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Chemistry MS

College: Sciences	Degree: MS
Department: Chemistry	Option: Thesis, Nonthesis
Program Websites: http://chemistry.cos.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Chemistry (MS) program prepares students for careers in the chemical industry or further graduate studies.

The curriculum is designed to provide a broad overall perspective of the chemical sciences field while placing the primary emphasis upon chemistry and the application of chemical principles.

Curriculum

The Chemistry MS program offers both a thesis option and a nonthesis option. The thesis option requires a minimum of 30 credit hours beyond the bachelor's degree, including 16 credit hours of required courses, at least 6 credit hours of thesis research, and 8 credit hours of electives that must be approved by the student's advisory committee. The nonthesis option requires a minimum of 31 credit hours beyond the bachelor's degree, including 16 credit hours of required courses, 14 credit hours of electives that must be approved by the student's advisory committee, and 1 credit hour of independent study that culminates in a research report.

Total Credit Hours Required: 30-31 Credit Hours Minimum beyond the Bachelor's Degree

Qualifying Examinations

All students must satisfy qualifying (proficiency) requirements in four of the five areas (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry) during the first year by taking exams in four of these five subjects. Additional course work may be required if one or more of the qualifying exams are not satisfied. Satisfaction of this requirement will help ensure that all students are adequately prepared for the core courses. If students do not satisfy the proficiency exam requirements within the first year, they may be subject to dismissal from the program.

Required Courses: 16 Credit Hours

Students must take four of the following courses. If a student successfully completes all five required courses, one course will count toward fulfilling the electives requirement.

- CHM 6710 - Applied Analytical Chemistry **3 Credit Hours**
- CHS 6240 - Chemical Thermodynamics **3 Credit Hours**
- CHS 6251 - Applied Organic Synthesis **3 Credit Hours**
- CHM 6440 - Kinetics and Catalysis **3 Credit Hours**
- BCH 6740 - Advanced Biochemistry **3 Credit Hours**

Seminar

In addition, students must complete the following seminar.

- CHM 6936 - Graduate Chemistry Seminar **1 Credit Hours** (taken four times)

Elective Courses: 8 Credit Hours

All students must take 8 credit hours of electives from the following list. All elective courses must be approved by the student's advisory committee.

- CHM 5225 - Advanced Organic Chemistry **3 Credit Hours**
- CHM 5235 - Applied Molecular Spectroscopy **3 Credit Hours**

- CHM 5305 - Bioconjugate Chemistry **3 Credit Hours**
- CHM 5450 - Polymer Chemistry **3 Credit Hours**
- CHM 5451C - Techniques in Polymer Science **3 Credit Hours**
- CHM 5580 - Advanced Physical Chemistry **3 Credit Hours**
- CHM 6134 - Advanced Instrumental Analysis **3 Credit Hours**
- CHM 6711 - Chemistry of Materials **3 Credit Hours**
- CHS 6260 - Chemical Unit Operations and Separations **3 Credit Hours**
- CHS 6613 - Current Topics in Environmental Chemistry **3 Credit Hours**
- CHM/CHS Special topics courses

Thesis Option: 6 Credit Hours

The grounding in scientific research methodology provided by the thesis requirement is a central focus of the thesis option in the Chemistry MS program. Students will conduct research either on site or at the professional laboratories where they work. In either case, a member of the UCF Chemistry Department faculty will act as research adviser and approve the research topic. This research culminates in the writing and presentation of the thesis. The student will present his/her thesis for final examination (oral defense of thesis) by a committee consisting of three members including the research adviser. The committee has to be approved by the Graduate Coordinator of the Chemistry program. The thesis must be judged worthy of publication by the review committee and may not be submitted for examination until so deemed. For nonresident students, the thesis adviser will visit the student's laboratory, where their research is to be performed, before the research begins and on a regular basis until the work is complete.

- CHM 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 7 Credit Hours

Nonthesis students take an additional 7 credit hours of courses, including 6 credit hours of electives from the list above and 1 credit hour of independent study, resulting in a required research report of independent learning experience.

- Electives **6 Credit Hours**
- CHM 6908 - Independent Study **1 Credit Hour**

Equipment Fee

Full-time students in the Chemistry MS program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

For the thesis option, the grounding in scientific research methodology is a central focus. This research culminates in the writing and presentation of the thesis. For the nonthesis option, students take an additional 6 credit hours of approved electives and one-credit hour of Independent Study (CHM 6908), which culminates in a required report of the independent study experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Two letters of recommendation.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

All application materials must be submitted by the appropriate deadline listed below.

Chemistry MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1	Jul 1	
International Applicants	Jan 1	Jan 1	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Qun Huo PhD

Professor, Program Coordinator

Qun.Huo@ucf.edu

Telephone: 407-882-2845

PVL 0422

Michelle Salcedo
Michelle.Salcedo@ucf.edu
Telephone: 407-823-5728
PSB 255

Graduate Admissions

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Civil Engineering MS

College: Engineering and Computer Science	Degree: MS
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Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.cece.ucf.edu/	
Graduate Program Handbook	

Program Description

The Civil Engineering MS degree program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society. The program offers tracks in Structural and Geotechnical Engineering, Transportation Systems Engineering, and Water Resources Engineering. Course work includes structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, and water resources engineering.

Faculty research interests include geotechnical studies of subsurface conditions, soil testing "superpave" mix design, intelligent transportation systems, traffic safety, structural dynamics, nonlinear structural analysis and software development, reinforced concrete, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf>.

Program Tracks

- Civil Engineering MS, Structural and Geotechnical Engineering Track ►
- Civil Engineering MS, Transportation Systems Engineering Track ►
- Civil Engineering MS, Water Resources Engineering Track ►
- Civil Engineering MS, Smart Cities Track ►

Curriculum

The MS degree offers both thesis and nonthesis options with each requiring 30 credit hours of acceptable graduate work. The thesis option requires a 6 credit hour thesis project and the nonthesis option requires an additional 6 credit hours of electives and an end-of-program portfolio submission.

Individual, independent research studies may be required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. In addition, students may engage in six credit hours of independent study during their studies.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Equipment Fee

Students in the Civil Engineering MS program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one course with a research project and submit an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Andrew Randall PhD PE

Professor

andrew.randall@ucf.edu

Telephone: 407-823-6429

Engineering II, 211-L

Ana Lucia Salas

Graduate Student Services Coordinator

AnaLucia.Salas@ucf.edu

Telephone: 407-823-1299

Engineering II, 211-K

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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finaid@ucf.edu
<http://finaid.ucf.edu>

Civil Engineering MS, Smart Cities Track ►

College: Engineering and Computer Science	Degree: MS
Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.cece.ucf.edu/	
Graduate Program Handbook	

Track Description

In 2017, FUTURe CITY initiative was launched by the College of Engineering and Computer Science (CECS) and Civil, Environmental, and Construction Engineering (CECE) Department. FUTURe CITY initiative at UCF brings together a group of researchers and educators with a vision to synergistically explore the wide-ranging technological advances towards better serving urban residents. The initiative is a pioneering effort in the state and country. It is geared toward many aspects of CECE including: Smart transportation, Smart and resilient infrastructure, Smart and technological advancements in environmental engineering, and water resources.

The track is designed to help future Civil and Environmental Engineers to learn and adapt to the new challenges in the field of Smart Cities and be prepared for their professional roles through a state-of-the-art education. Elements of the track will bridge some of the gaps with other engineering disciplines and open the door for students to collaborate on research and education that are relevant to the cities of the future.

Please Note: Civil Engineering MS, Smart Cities Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf>.

Curriculum

The Smart City Track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. Both thesis and non-thesis options are available with each requiring 30 credit hours. The thesis option requires 3 credit hours of required course work, 9 credit hours of Core courses, 12 credit hours of elective graduate course work exclusive of thesis and research, and a thesis (6 credit hours). The non-thesis option requires 3 credit hours of required course work, 15 credit hours of required graduate Core courses, 12 credit hours of electives, and submission of an end-of-program portfolio. Each student must have an individual program of study approved by his/her faculty committee and have completed all required articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

Prerequisites (Articulation)

There is no specific articulation for graduates with a relevant BS degree. Several courses have specific pre-requisites that are indicated for each course. The structure of the program is flexible so the student can choose his/her own courses by selecting among 15 core courses.

Required Course—3 Credit Hours

Both thesis and nonthesis students must choose this course:

- CGN 5341 - Interdisciplinary Introduction to Smart Cities' Applications **3 Credit Hours**

Core Courses—9 - 15 Credit Hours

Choose a minimum of 9 hours for thesis and 15 hours for non-thesis.

- CCE 5220 - Sustainable Infrastructure Systems **3 Credit Hours**
- CEG 6610 - Smart Underground Structures: Tunnels and Shafts **3 Credit Hours**
- CES 6876 - Smart City Built Infrastructure **3 Credit Hours**
- CGN 5617 - Infrastructure Systems Optimization and Identification **3 Credit Hours**
- CGN 6342 - Modeling Human Behavior with Emerging Data **3 Credit Hours**
- CGN 6343 - Cyber-Physical Systems and Smart Cities **3 Credit Hours**
- ENV 6128 - Smart Air Quality Monitoring and Air Pollution Control **3 Credit Hours**
- ENV 6533 - Smart Water and Wastewater Management **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- TTE 5531 - Active Mobility and Technologies: Synergy and Challenges **3 Credit Hours**
- TTE 5532 - Policy Aspects of Smart City Transportation **3 Credit Hours**
- TTE 6533 - Mobility in Smart Cities: Technologies and Application Areas **3 Credit Hours**
- TTE 6275 - Connected and Autonomous Vehicles **3 Credit Hours**
- TTE 6608 - Algorithms and Models for Smart Cities **3 Credit Hours**
- CGN 5340 - Internet of Things: Applications in Smart Cities **3 Credit Hours**

Elective Courses—9 Credit Hours

All students, both thesis and non-thesis, are required to take at most 12 credit hours of approved electives. The courses may be from the list above or other courses as approved by the student's adviser. Directed Research (XXX 6918) is not permitted in the MS program of study.

- CAP 5415 - Computer Vision **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 5738 - Visualization Techniques for Data Analysis **3 Credit Hours**
- CEN 5016 - Software Engineering **3 Credit Hours**
- CGN 6655 - Regional Planning, Design, and Development **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 6026 - Optimization of Engineering Systems **3 Credit Hours**
- EEL 6671 - Modern and Optimal Control Systems **3 Credit Hours**
- EEL 6683 - Cooperative Control of Networked Autonomous Systems **3 Credit Hours**
- EMA 5104 - Intermediate Structure and Properties of Materials **3 Credit Hours**
- EMA 5504 - Modern Characterization of Materials **3 Credit Hours**
- EMA 6626 - Mechanical Behavior of Materials **3 Credit Hours**
- HMG 6449 - Smart Travel and Tourism **3 Credit Hours**
- PAD 5337 - Urban Design **3 Credit Hours**
- PAD 5930 - Global Cities **3 Credit Hours**
- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 6339 - Housing Development and Planning **3 Credit Hours**
- PAD 6387 - Transportation Policy **3 Credit Hours**

- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**
- STA 5104 - Advanced Computer Processing of Statistical Data **3 Credit Hours**
- STA 5206 - Statistical Analysis **3 Credit Hours**
- STA 5825 - Stochastic Processes and Applied Probability Theory **3 Credit Hours**
- STA 6704 - Data Mining Methodology II **3 Credit Hours**
- STA 6707 - Multivariate Statistical Methods **3 Credit Hours**
- STA 6709 - Spatial Statistics **3 Credit Hours**
- TTE 6270 - Intelligent Transportation Systems **3 Credit Hours**
- TTE 6667 - Discrete Choice Modeling in Transportation **3 Credit Hours**
- URP 6711 - Sustainable Transportation Planning **3 Credit Hours**

Thesis Option—6 Credit Hours

A successful defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

Nonthesis Option—6 Credit Hours

Nonthesis students must complete at least 6 additional credit hours of electives from either the list above or other courses as approved by the student's adviser.

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Non-thesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and submission of an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admissions decisions are made on the basis of a complete online application only, and not on the basis of any pre-screening. Prospective applicants who are encouraged to apply to their intended graduate program based on the information provided for their pre-screening are not assured of admission or financial assistance when they submit a complete online application. Although it is possible, it is not likely, that prospective applicants who are discouraged from formally applying to a graduate program at the pre-screening stage will be admitted if they elect to submit a complete online application anyway.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Application Deadlines

Smart Cities	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Andrew Randall PhD PE

Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Civil Engineering MS, Structural and Geotechnical Engineering Track ►

College: Engineering and Computer Science	Degree: MS
Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.cece.ucf.edu/	
Graduate Program Handbook	

Track Description

The Structural and Geotechnical Engineering track in the Civil Engineering MS program focuses on the engineering, analysis, design, and construction of the built infrastructure. The track emphasizes on both: the above-ground engineering (primarily structures), the below-ground engineering (primarily geotechnical), as well as the interaction between the two systems. The program's course work focuses on structural analysis and design, mechanics and materials, foundations, characterization of soils and geomaterials, and computational modeling in structural and geotechnical engineering. Faculty research interests include geotechnical studies of subsurface conditions, soil

characterization and testing, pavement design, retaining structures, structural dynamics, nonlinear structural analysis and software development, reinforced and prestressed concrete design, bridge engineering and pavements. Students completing the program find positions in consulting firms, design companies, construction and construction-related industries, in city, county, state, and federal government agencies, and academic institutions. This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/licensure-programs/>.

Please Note: Civil Engineering MS, Structural and Geotechnical Engineering Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf>.

Curriculum

The department offers a Structural and Geotechnical Engineering track in the Civil Engineering MS program to students with appropriate science or engineering baccalaureate backgrounds. Both a thesis option and a nonthesis option are available with each requiring 30 credit hours. The thesis option requires 12 credit hours of required courses, 12 credit hours of elective graduate course work (exclusive of thesis and research), and 6 credit hours of thesis. The nonthesis option requires 12 credit hours of required courses and 18 credit hours of elective graduate course work. The nonthesis option also requires submission of an end-of-program portfolio. The student must develop an individual program of study with a faculty adviser and must have background or articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

Prerequisites (Articulation)

- EGN 3310 - Engineering Analysis—Statics **3 Credit Hours**
- EGN 3321 - Engineering Analysis—Dynamics **3 Credit Hours**
- EGN 3331 - Mechanics of Materials **3 Credit Hours**
- CEG 4011C - Geotechnical Engineering I **4 Credit Hours**
- CES 4100 - Structural Analysis **4 Credit Hours**

Required Courses: 12 Credit Hours

Both thesis and nonthesis students must choose one of the two groups of required courses below.

Geotechnical Engineering

- CEG 6065 - Soil Dynamics **3 Credit Hours**
- CEG 6115 - Foundation Engineering **3 Credit Hours** *
- CEG 6317 - Advanced Geotechnical Engineering **3 Credit Hours**
- CES 6170 - Boundary Element Methods in Civil Engineering **3 Credit Hours** *
- TTE 5835 - Pavement Engineering **3 Credit Hours**
- CGN 5506 - Advanced Pavement and Civil Engineering Materials **3 Credit Hours**

Structural Engineering

- CES 5144 - Matrix Methods for Structural Analysis **3 Credit Hours**
- CES 5325 - Bridge Engineering **3 Credit Hours**
- CES 5606 - Advanced Steel Structures **3 Credit Hours** *
- CES 5706 - Advanced Reinforced Concrete **3 Credit Hours** *
- CES 5821 - Masonry and Timber Design **3 Credit Hours**
- CES 6010 - Structural Reliability **3 Credit Hours**
- CES 6116 - Finite Element Structural Analysis **3 Credit Hours**
- CES 6209 - Dynamics of Structures **3 Credit Hours**
- CES 6220 - Wind and Earthquake Engineering **3 Credit Hours**
- CES 6230 - Advanced Structural Mechanics **3 Credit Hours**
- CES 6527 - Nonlinear Structural Analysis **3 Credit Hours**
- CES 6715 - Prestressed Concrete Structures **3 Credit Hours** *

Elective Courses: 12 Credit Hours

All students, both thesis and nonthesis, must complete at least 12 credit hours of approved electives (primarily from the above two groups but also from the list below or other courses as approved by the student's adviser). Please note that Directed Research (XXX 6918) is not permitted in the MS program of study.

Construction Engineering and Management

- CCE 5205 - Decision Support for Infrastructure Projects **3 Credit Hours**
- CCE 5006 - Infrastructure Systems Management **3 Credit Hours**
- CCE 5220 - Sustainable Infrastructure Systems **3 Credit Hours**
- CCE 6036 - Advanced Construction Planning and Control **3 Credit Hours** *
- CCE 6211 - Design and Monitoring of Construction Processes **3 Credit Hours**
- CCE 6045 - Cost Analysis of Sustainable Infrastructure Systems **3 Credit Hours**

Thesis Option: 6 Credit Hours

Successful performance in a final defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- XXX 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Nonthesis students must complete 6 additional credit hours of electives from the lists above or other courses as approved by the student's adviser. Please note that at least one course in the nonthesis program of study must be one of the courses with an asterisk, which denotes that this course provides an independent learning experience for the student.

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Equipment Fee

Students in the Civil Engineering MS program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one course with a research project and submit an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
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Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Application Deadlines

Structural and Geotechnical Engineering	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Fellowships

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Contact Info

Graduate Program

Andrew Randall PhD PE

Professor
 andrew.randall@ucf.edu
 Telephone: 407-823-6429
 Engineering II, 211-L

Ana Lucia Salas

Graduate Student Services Coordinator
 AnaLucia.Salas@ucf.edu

Telephone: 407-823-1299
Engineering II, 211-K

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>



Civil Engineering MS, Transportation Systems Engineering Track ►

College: Engineering and Computer Science	Degree: MS
Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis

Program Websites: http://www.cece.ucf.edu/
Graduate Program Handbook

Track Description

The Transportation Systems Engineering track in the Civil Engineering MS program reflects the very broad nature of the field, which encompasses the design, and enhancement of the transportation infrastructure of society. The program's course work focuses on transportation planning and traffic engineering.

Faculty research interests include intelligent transportation systems, traffic safety, and traffic signal design. Students completing the program find positions in consulting firms, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

Please Note: Civil Engineering MS, Transportation Systems Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf>.

Curriculum

The Transportation Systems Engineering track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. Both a thesis option and a nonthesis option are available with each requiring 30 credit hours of graduate courses. The thesis option requires 15 credit hours of required courses, 9 credit hours of elective courses (exclusive of thesis and research), and a thesis (6 credit hours). The nonthesis option requires 15 credit hours of required courses and 15 credit hours of elective graduate course work. The nonthesis option also requires submission of an end-of-program portfolio. The student must develop an individual program of study with a faculty adviser and must have background or articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students independently acquire knowledge and skills pertaining to best practices in that specialization area.

Prerequisites

- STA 3032 - Probability and Statistics for Engineers **3 Credit Hours**

- TTE 3810 - Transportation Engineering **3 Credit Hours**

Required Courses: 15 Credit Hours

Both thesis and nonthesis students must choose five of the following courses. Courses with asterisks provide independent learning experiences. These experiences encompass research reports, design projects, and literature studies. Nonthesis students must choose at least one course with an asterisk.

- CGN 6655 - Regional Planning, Design, and Development **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours** or
- STA 5206 - Statistical Analysis **3 Credit Hours**
- TTE 5204 - Traffic Engineering **3 Credit Hours** *
- TTE 5805 - Geometric Design of Transportation Systems **3 Credit Hours** *
- TTE 5835 - Pavement Engineering **3 Credit Hours**
- TTE 6205 - Highway Capacity **3 Credit Hours**
- TTE 6256 - Traffic Operations **3 Credit Hours** *
- TTE 6270 - Intelligent Transportation Systems **3 Credit Hours**
- TTE 6275 - Connected and Autonomous Vehicles **3 Credit Hours**
- TTE 6315 - Traffic Safety Analysis **3 Credit Hours** *
- TTE 6526 - Planning and Design of Airports **3 Credit Hours** *
- TTE 6625 - Mass Transportation Systems **3 Credit Hours**
- TTE 6667 - Discrete Choice Modeling in Transportation **3 Credit Hours**

Elective Courses: 9 Credit Hours

All students, both thesis and nonthesis, must complete at least 9 credit hours of approved electives from the list above or other courses as approved by the student's adviser. Directed Research (XXX 6918) is not permitted in the MS program of study.

- Electives **9 Credit Hours**

Thesis Option: 6 Credit Hours

A final defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- TTE 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

For those pursuing the nonthesis option, two additional electives are required, which should preferably come from the above list, although other courses may be chosen with adviser's consent.

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Equipment Fee

Students in the Civil Engineering MS program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and submit an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews with applicants before accepting them into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Application Deadlines

Transportation Systems Engineering	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	-
International Applicants	Jan 15	Jan 15	Jul 1	-

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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Civil Engineering MS, Water Resources Engineering Track ►

College: Engineering and Computer Science	Degree: MS
Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.cece.ucf.edu/	
Graduate Program Handbook	

Track Description

The Water Resources Engineering track in the Civil Engineering MS program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the sustainable infrastructure for society. The program's course work focuses on water resources modeling, hydraulics and hydrology.

Water Resource faculty research interests include ecohydraulic and ecohydrologic modeling, groundwater and surface hydrology, sea level rise and other climate change impact assessments, stormwater management, tide, wind-wave and hurricane storm surge modeling, and environmental water resources management, and stormwater management. Students completing the program find positions in consulting firms, construction and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

Please Note: Civil Engineering MS, Water Resources Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf>.

Curriculum

The Water Resources Engineering track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. Both thesis and non-thesis options are available with each requiring 30 credit hours. The thesis option requires 15 credit hours of required courses, 9 credit hours of elective graduate course work exclusive of thesis and research, and a thesis (6 credit hours). The nonthesis option requires 15 credit hours of required graduate course work, 15 credit hours of electives, and submission of an end-of-program portfolio. Each student must have an individual program of study approved by his/her faculty committee and have completed all required articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

Prerequisites (Articulation)

- CEG 4011C - Geotechnical Engineering I **4 Credit Hours**
- CWR 4202C - Hydraulics **4 Credit Hours**
- CWR 4120 - Hydrology **3 Credit Hours**
- EGN 3613 - Engineering Economic Analysis **2 Credit Hours**
- STA 3032 - Probability and Statistics for Engineers **3 Credit Hours**

Required Courses: 15 Credit Hours

Both thesis and nonthesis students must choose five CWR courses from the list below. Courses with an asterisk provide an independent learning experience that involves research and design projects. Nonthesis students are required to take at least one course with an asterisk in order to obtain an independent learning experience.

- CWR 5125 - Groundwater Hydrology **3 Credit Hours**
- CWR 5205 - Hydraulic Engineering **3 Credit Hours**
- CWR 5515 - Numerical Methods in Civil and Environmental Engineering **3 Credit Hours**
- CWR 5545 - Water Resources Engineering **3 Credit Hours**
- CWR 5634 - Water Resources in a Changing Environment **3 Credit Hours**
- CWR 6102 - Advanced Hydrology **3 Credit Hours** *
- CWR 6126 - Groundwater Modeling **3 Credit Hours** *

- CWR 6235 - Open Channel Hydraulics **3 Credit Hours**
- CWR 6236 - River Engineering and Sediment Transport **3 Credit Hours**
- CWR 6535 - Modeling Water Resources Systems **3 Credit Hours** *
- CWR 6539 - Finite Elements in Surface Water Modeling **3 Credit Hours**

Elective Courses: 9 Credit Hours

All students, both thesis and nonthesis, are required to take at least 9 credit hours of approved electives. The courses may be from the list above or other courses as approved by the student's adviser. Directed Research (XXX 6918) is not permitted in the MS program of study

- Electives **9 Credit Hours**

Thesis Option: 6 Credit Hours

A successful defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- CWR 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Nonthesis students must complete at least 6 additional credit hours of electives from either the list above or other courses as approved by the student's adviser.

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Equipment Fee

Students in the Civil Engineering MS program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and submission of an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

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- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Application Deadlines

Water Resources Engineering	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Professor

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Millican Hall 230

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Graduate Admissions

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Institution Codes

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GMAT: RZT-HT-58

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 http://finaid.ucf.edu

Civil Engineering MSCE ►

College: Engineering and Computer Science	Degree: MSCE
Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.cece.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Civil Engineering degree is designed for students who have an undergraduate degree in Civil Engineering or another closely related engineering degree. Graduate work and research in civil engineering reflect the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society.

The program includes course work in structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, water resources engineering, and smart cities.

Faculty research interests include geotechnical studies of subsurface conditions, soil testing "superpave" mix design, intelligent transportation systems, traffic safety, structural dynamics, nonlinear structural analysis and software development, reinforced concrete, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MSCE.pdf>.

Please Note: Civil Engineering MSCE may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

The Civil Engineering MSCE program requires a minimum of 30 credit hours beyond the bachelor's degree, and both thesis and nonthesis options are available. The thesis option requires 24 credit hours of formal graduate-level course work and 6 credit hours of thesis. The nonthesis option requires 30 hours of formal course work and completion of a culminating experience. For nonthesis MS students, the culminating experience is submission of a portfolio that satisfies program requirements. It is strongly suggested that part-time students pursue the nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Students must develop an individual plan of study with a faculty adviser by their second semester of study. At least one-half of the required credits must be taken at the 6000 level.

Research studies are required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. In addition, students may engage in directed independent studies, directed research or a research report during their studies. Courses with asterisks represent those with specific independent learning experiences, and all nonthesis students must choose at least one course with an asterisk.

Elective Courses: 24 Credit Hours

Thesis MS students must take a minimum of 24 credit hours of course work with at least 18 credit hours from the Civil, Environmental and Construction Engineering (CECE) Department in their program of study.

Nonthesis MS students must take at least 24 credit hours of course work from the CECE Department in their program of study. Nonthesis students must take at least one course where a research project is required (one course marked with an asterisk).

Geotechnical Engineering

- CEG 6065 - Soil Dynamics **3 Credit Hours** *
- CEG 6115 - Foundation Engineering **3 Credit Hours**
- CEG 6317 - Advanced Geotechnical Engineering **3 Credit Hours**

Structural Engineering

- CES 5144 - Matrix Methods for Structural Analysis **3 Credit Hours**
- CES 5325 - Bridge Engineering **3 Credit Hours** *
- CES 5606 - Advanced Steel Structures **3 Credit Hours**
- CES 5706 - Advanced Reinforced Concrete **3 Credit Hours**
- CES 5821 - Masonry and Timber Design **3 Credit Hours**
- CES 6010 - Structural Reliability **3 Credit Hours**
- CES 6116 - Finite Element Structural Analysis **3 Credit Hours**
- CES 6209 - Dynamics of Structures **3 Credit Hours** *
- CES 6220 - Wind and Earthquake Engineering **3 Credit Hours**
- CES 6230 - Advanced Structural Mechanics **3 Credit Hours**

- CES 6527 - Nonlinear Structural Analysis **3 Credit Hours**
- CES 6715 - Prestressed Concrete Structures **3 Credit Hours ***

Transportation Engineering

- TTE 5204 - Traffic Engineering **3 Credit Hours**
- TTE 5805 - Geometric Design of Transportation Systems **3 Credit Hours**
- TTE 5835 - Pavement Engineering **3 Credit Hours**
- TTE 6205 - Highway Capacity **3 Credit Hours ***
- TTE 6256 - Traffic Operations **3 Credit Hours**
- TTE 6270 - Intelligent Transportation Systems **3 Credit Hours ***
- TTE 6315 - Traffic Safety Analysis **3 Credit Hours ***
- TTE 6526 - Planning and Design of Airports **3 Credit Hours**
- TTE 6625 - Mass Transportation Systems **3 Credit Hours**
- CGN 6655 - Regional Planning, Design, and Development **3 Credit Hours**

Water Resources Engineering

- CWR 5125 - Groundwater Hydrology **3 Credit Hours**
- CWR 5205 - Hydraulic Engineering **3 Credit Hours**
- CWR 5515 - Numerical Methods in Civil and Environmental Engineering **3 Credit Hours**
- CWR 5545 - Water Resources Engineering **3 Credit Hours**
- CWR 5634 - Water Resources in a Changing Environment **3 Credit Hours**
- CWR 6102 - Advanced Hydrology **3 Credit Hours ***
- CWR 6126 - Groundwater Modeling **3 Credit Hours ***
- CWR 6235 - Open Channel Hydraulics **3 Credit Hours**
- CWR 6236 - River Engineering and Sediment Transport **3 Credit Hours**
- CWR 6535 - Modeling Water Resources Systems **3 Credit Hours ***

Smart Cities Engineering

- CCE 5220 - Sustainable Infrastructure Systems **3 Credit Hours**
- CEG 6610 - Smart Underground Structures: Tunnels and Shafts **3 Credit Hours**
- CES 6876 - Smart City Built Infrastructure **3 Credit Hours**
- CGN 5617 - Infrastructure Systems Optimization and Identification **3 Credit Hours**
- CGN 6342 - Modeling Human Behavior with Emerging Data **3 Credit Hours**
- CGN 6343 - Cyber-Physical Systems and Smart Cities **3 Credit Hours**
- ENV 6128 - Smart Air Quality Monitoring and Air Pollution Control **3 Credit Hours**
- ENV 6533 - Smart Water and Wastewater Management **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- TTE 5531 - Active Mobility and Technologies: Synergy and Challenges **3 Credit Hours**
- TTE 5532 - Policy Aspects of Smart City Transportation **3 Credit Hours**
- TTE 6533 - Mobility in Smart Cities: Technologies and Application Areas **3 Credit Hours**
- TTE 6275 - Connected and Autonomous Vehicles **3 Credit Hours**
- TTE 6608 - Algorithms and Models for Smart Cities **3 Credit Hours**
- CGN 5340 - Internet of Things: Applications in Smart Cities **3 Credit Hours**
- CGN 5341 - Interdisciplinary Introduction to Smart Cities' Applications **3 Credit Hours**

Construction Engineering and Management

- CCE 5205 - Decision Support for Infrastructure Projects **3 Credit Hours**
- CCE 5006 - Infrastructure Systems Management **3 Credit Hours**
- CCE 5220 - Sustainable Infrastructure Systems **3 Credit Hours**
- **CCE 5937 - Construction Contracts 3 Credit Hours**
- CCE 6036 - Advanced Construction Planning and Control **3 Credit Hours ***
- CCE 6211 - Design and Monitoring of Construction Processes **3 Credit Hours ***
- CCE 6045 - Cost Analysis of Sustainable Infrastructure Systems **3 Credit Hours**

Thesis Option: 6 Credit Hours

For those pursuing the thesis option, students must complete 6 credit hours of thesis and successfully defend the thesis.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- XXX 6971 - Thesis **6 Credit Hours** (with the course prefix of CGN, CEG, CES, CWR or TTE)

Nonthesis Option: 6 Credit Hours

Students in the nonthesis option must complete 6 credit hours of electives in addition to the 24 credit hours of formal course work described above. All totaled, the nonthesis option requires 30 credit hours of course work.

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal date of the semester prior to their intended graduation. The portfolio requirements are listed on the CECE website.

Equipment Fee

Students in the Civil Engineering MSCE program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one course where a research project is required and submit an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
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Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Application Deadlines

Civil Engineering MSCE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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Engineering II, 211-L

Ana Lucia Salas

Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Clinical Psychology MA

Colleges: Sciences	Degree: MA
Department: Psychology	Option: Thesis, Non-Thesis
Program Websites: https://sciences.ucf.edu/psychology/graduate/ma-clinical/	

Program Description

The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The program consists of two tracks:

Applied Pre-Licensure/Non-Thesis Track: The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Applied Pre-Licensure/Non-Thesis Track is designed for students interested in delivering clinical services in a variety of settings including community agencies and private practice. After completing the program and after two years of postgraduate supervised clinical experience, graduates are eligible to become Licensed Mental Health Counselors (LMHCs) in the state of Florida.

Research/Thesis Track: The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Research/Thesis Track is designed for students who wish to focus on clinical research and/or are interested in pursuing entry into a doctoral program following the completion of their Master's degree. Students who complete this option are not eligible to become Licensed Mental Health Counselors upon graduation.

Please visit the program's website for more information, including a list of program faculty members, and frequently asked questions (FAQs), including additional information about each track:

<https://sciences.ucf.edu/psychology/graduate/ma-clinical/>.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-COS-Clinical-Psychology-MA-June2020-1.pdf>.

Please see the specific admission, application requirement, financial and contact information for the track in which you are interested.

Program Tracks

- Clinical Psychology MA, Applied Pre-Licensure Non-Thesis Track
- Clinical Psychology MA, Research Thesis Track

Clinical Psychology MA, Applied Pre-Licensure Non-Thesis Track

Colleges: Sciences	Degree: MA
Department: Psychology	Option: Non-Thesis
Program Websites: https://sciences.ucf.edu/psychology/graduate/ma-clinical/	

Track Description

The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Applied Pre-Licensure/Non-Thesis Track is designed for students interested in delivering clinical services in a variety of settings including community agencies and private practice. After completing the program and after two years of postgraduate supervised clinical experience, graduates are eligible to become Licensed Mental Health Counselors (LMHCs) in the state of Florida. Please visit the program's website for more information, including a list of program faculty members and answers to frequently asked questions (FAQs):

<https://sciences.ucf.edu/psychology/graduate/ma-clinical/>.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-COS-Clinical-Psychology-MA.pdf>.

Curriculum

The Clinical Psychology Applied Pre-Licensure/Non-Thesis Track requires a minimum of 61 credit hours beyond the Bachelor's degree, including 49 credit hours of required courses and 12 clinical internship credit hours. This track is for students primarily interested in clinical practice at the Master's level upon graduation; however, some students in this track have applied to and gained admission into doctoral programs after graduation.

The primary areas of emphasis include assessment or evaluation skills and intervention or psychotherapy skills, and the program curriculum is consistent with the educational criteria for licensure as a mental health counselor in the state of

Florida. Program graduates have been involved in mental health service delivery through individual, marital, family, and group psychotherapy, as well as crisis intervention and other specialized therapeutic procedures. Although research is not required in this track, students in this track do have the opportunity to engage in collaborative research with program faculty.

Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—49 Credit Hours

- CLP 5166 - Advanced Abnormal Psychology **3 Credit Hours**
- CLP 6181 - Psychological Theories of Substance Abuse Treatment **3 Credit Hours**
- CLP 6191 - Multicultural Psychotherapy **3 Credit Hours**
- CLP 6195C - Introduction to Psychotherapy **3 Credit Hours**
- CLP 6321 - Psychotherapy in Community Settings **3 Credit Hours**
- CLP 6441C - Individual Psychological Assessment I **3 Credit Hours**
- CLP 6457C - Group Psychotherapy **3 Credit Hours**
- CLP 6459C - Human Sexuality, Marriage, and Sex Therapies **3 Credit Hours**
- CLP 6460C - Introduction to Child, Adolescent, and Family Therapies **3 Credit Hours**
- CLP 6461 - Cognitive-Behavioral Therapy **3 Credit Hours**
- CLP 6449C - Career and Lifestyle Assessment **3 Credit Hours**
- CLP 6932 - Ethical and Professional Issues in Mental Health Practices **3 Credit Hours**
- CYP 6942 - Practicum in Psychological Counseling **3 Credit Hours**
- DEP 5057 - Developmental Psychology **3 Credit Hours**
- PSY 6216C - Research Methodology **4 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**

Internship—12 Credit Hours

- CYP 6948C Psychology

The purpose of the internship requirement is to provide the MA candidate in Clinical Psychology with comprehensive, practical experiences under the supervision of licensed mental health professionals. A public agency or nonprofit institution with nondiscriminatory practices is the prototype. The intern is assigned to an acceptable agency for a total of 1000 hours during three consecutive academic semesters (20 hours per week for 16 weeks during fall and spring terms, and 30 hours per week for 12 weeks during the summer term). An additional commitment of three hours per week is required for the interns to meet as a group with a departmental faculty member for review, feedback, and discussions. A major portion of intern training is in the area of psychotherapy/counseling. The intern also engages in differential diagnosis and participates in a wide variety of psychological assessment procedures.

It is believed that supervision by qualified and experienced personnel is the primary learning mode by which the intern develops professional expertise and augments classroom didactics. Satisfactory completion ("B" [3.0-grade point average] or better) of the following courses is required prior to internship: CLP 5166, CLP 6195C, CLP 6441C, and CYP 6942.

The program director and clinical placement coordinator approve internship placements. Interns are provided with a system for maintaining accurate accounts of their activity during each week of their internship. In addition, both the intern and supervisor(s) complete an Internship Evaluation form each semester.

Comprehensive Exam and Case Presentation

The culminating academic experience for all students in the program is successful completion of a comprehensive exam and case presentation. All students must complete the comprehensive exam their final semester. The exam covers the core professional knowledge required by state licensing agencies. Students also are required to complete a written and oral clinical case presentation. Criteria for passing the exam and presentation are provided in the program handbook.

Additional Program Requirements

For all students in the Clinical MA program, successful completion requires demonstration of academic and clinical excellence. Students who receive grades lower than B (including B- and grades of U in courses graded satisfactory/unsatisfactory) in six semester hours or more will be dismissed from the program. It is a program requirement that all coursework with a grade lower than B be retaken and completed successfully, although both grades are still calculated in the GPA.

In addition to academic excellence, students are expected to demonstrate clinical skills and personal resources necessary to meet the demands of the program and for clinical practice. At the end of each semester, students will receive written feedback from the faculty on the extent to which they are meeting the programs requirements and performance expectations. Student progress will be rated as satisfactory or unsatisfactory. Students who receive an unsatisfactory rating will be asked to complete remediation as determined by the faculty. If the identified problems are not remedied and/or a second unsatisfactory rating is received, the student will be dismissed from the program.

Summer Enrollment

Summer enrollment is required for all students in this track.

Independent Learning

There are several independent learning experiences built into the programs of study that help to individualize the training program. Students work with the internship coordinator and academic advisor to select specific practicum and internship placements. During practicum and internship students will have the opportunity to present cases that incorporate an integration of assessment data and its interpretation, theoretical conceptualization, treatment planning, course of therapy, and available outcome data. This is done ensuring client confidentiality and the highest ethical standards. Although not required for this track, students in this track do have the opportunity to engage in collaborative research with program faculty.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the **Admissions** section of the Graduate Catalog. Applicants must **apply online**. All requested materials must be submitted by the established deadline.

In addition to the **general UCF graduate application requirements**, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A bachelor's degree in Psychology or a related area. A minimum of 15 semester hours of undergraduate psychology courses are required as a prerequisite for applicants with a degree in a field other than psychology. Completion of courses in abnormal psychology and research methods and/or statistics is strongly recommended. Other recommended courses include clinical psychology, developmental psychology, personality theory, physiological psychology, and psychology of diversity.
- Resume or Curriculum Vita.

- Personal Statement in which the applicant describes her or his experience, career goals and interests, and how this specific program is a good fit with the applicant's interests and goals. Please see program website for a list of program faculty and frequently asked questions (FAQs):
<https://sciences.ucf.edu/psychology/graduate/ma-clinical/>
- Three letters of recommendation, with at least two furnished by instructors who are acquainted with the applicant.

Admission:

Admission into the clinical master's program is competitive and meeting minimum UCF admission criteria does not guarantee acceptance into the program. Members of the program faculty review each student's credentials and invite competitive candidates for an interview. Final admission is based on submitted materials (e.g., GRE scores, GPA, letters of reference, personal statement, clinical experience, research experience) and performance on the interview. More generally, the program faculty consider the applicant's abilities, past performance, match between faculty expertise and the applicant's career/academic goals, and the applicant's potential to successfully complete the program.

Students are admitted to full-time status and complete the MA program in two calendar years (including summers).

Application Deadlines

All application materials must be submitted by the appropriate deadline listed below. This program is offered at the Sanford/Lake Mary Campus.

Clinical Psychology MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Brian Fisak PhD

Associate Professor
brian.fisak@ucf.edu
Telephone: 407-708-2822

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
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Institution Codes

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Clinical Psychology MA, Research Thesis Track

Colleges: Sciences	Degree: MA
Department: Psychology	Option: Thesis
Program Websites: https://sciences.ucf.edu/psychology/graduate/ma-clinical/	

Track Description

The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Research/Thesis Track is designed for students who wish to focus on clinical research and/or are interested in pursuing entry into a doctoral program following the completion of their Master's degree. Students who complete this option are not eligible to become Licensed Mental Health Counselors upon graduation. Please visit the program's website for more information, including a list of program faculty members and frequently asked questions (FAQs): <https://sciences.ucf.edu/psychology/graduate/ma-clinical/>.

Curriculum

The Clinical Psychology MA Research/Thesis Track program requires a minimum of 38 credit hours beyond the bachelor's degree, including 32 credit hours of required courses, and 6 thesis hours. The curriculum emphasizes the development of research experience and skills. Further, the curriculum is designed to be flexible, with numerous elective courses to help the student pursue specific interests and to work towards specific goals. Students in this track work closely with a faculty mentor.

Note: This track is for students who wish to focus on clinical research and/or preparation for doctoral-level study upon graduation. Students who complete this track will not be license-eligible when they graduate. Completion of this track does not guarantee admissions into a doctoral program.

Total Credit Hours Required: 38 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

- CLP 5166 - Advanced Abnormal Psychology **3 Credit Hours**
- CLP 6195C - Introduction to Psychotherapy **3 Credit Hours**
- CLP 6932 - Ethical and Professional Issues in Mental Health Practices **3 Credit Hours**

General Clinical Elective Courses—15 Credit Hours

In addition to the requirements associated with the Clinical Psychology Core, select 5 additional courses (advisor permission required):

- CLP 6181 - Psychological Theories of Substance Abuse Treatment **3 Credit Hours**
- CLP 6191 - Multicultural Psychotherapy **3 Credit Hours**
- CLP 6321 - Psychotherapy in Community Settings **3 Credit Hours**
- CLP 6441C - Individual Psychological Assessment I **3 Credit Hours**
- CLP 6449C - Career and Lifestyle Assessment **3 Credit Hours**
- CLP 6457C - Group Psychotherapy **3 Credit Hours**
- CLP 6459C - Human Sexuality, Marriage, and Sex Therapies **3 Credit Hours**
- CLP 6460C - Introduction to Child, Adolescent, and Family Therapies **3 Credit Hours**

- CLP 6461 - Cognitive-Behavioral Therapy **3 Credit Hours**
- CYP 6942 - Practicum in Psychological Counseling **3 Credit Hours**
- DEP 5057 - Developmental Psychology **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**

Research Courses—14 Credit Hours

- CLP 6527c - Measurement, Research Design, and Statistical Analysis in Clinical Psychology I **4 Credit Hours**
- CLP 6528C - Measurement, Research Design, and Statistical Analysis in Clinical Psychology II **4 Credit Hours**
- PSY 6971 - Thesis **Credit Hours**

Additional Program Requirements

For all students in the Clinical MA program, successful completion requires demonstration of academic excellence. Students who receive grades lower than B (including B- and grades of U in courses graded satisfactory/unsatisfactory) in six semester hours or more will be dismissed from the program. It is a program requirement that all course work with a grade lower than B be retaken and completed successfully, although both grades are still calculated in the GPA.

In addition to academic excellence, students are expected to demonstrate skills and personal resources that are up to the demands of the program. At the end of each semester, students will receive written feedback from the faculty on the extent to which they are meeting the programs requirements and performance expectations. Student progress will be rated as satisfactory or unsatisfactory. Students who receive an unsatisfactory rating will be asked to complete remediation as determined by the faculty. If the identified problems are not remedied and/or a second unsatisfactory rating is received, the student will be dismissed from the program.

Summer Enrollment

Summer enrollment may be required for completion of the program.

Independent Learning

There are several independent learning experiences built into the programs of study that help to individualize the training program. Students who pursue the research thesis track engage in independent learning through the design and implementation of original research in collaboration with faculty. They will work closely with a faculty mentor in relation to research and selection of electives. Further, although not required, students have the opportunity to take a clinical practicum in their second year in the program to gain clinical experience.

Application Requirements

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the **Admissions** section of the Graduate Catalog. Applicants must **apply online**. All requested materials must be submitted by the established deadline.

In addition to the **general UCF graduate application requirements**, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A bachelor's degree in Psychology or a related area. A minimum of 15 semester hours of undergraduate psychology courses are required as a prerequisite for applicants with a degree in a field other than psychology. Completion of courses in abnormal psychology and research methods and/or statistics is strongly recommended. Other recommended courses include clinical psychology, developmental psychology, personality theory, physiological psychology, and psychology of diversity.
- Resume or Curriculum Vita.
- Personal Statement in which the applicant describes her or his experience, career goals and research interests, and how this specific program is a good fit with the applicant's career interests and goals. Please see program website for a list of program faculty and their research interests and frequently asked questions (FAQs): <https://sciences.ucf.edu/psychology/graduate/ma-clinical/>
- Three letters of recommendation, with at least two provided by instructors who are acquainted with the applicant.

Admission:

Admission into the clinical master's program is competitive and meeting minimum UCF admission criteria does not guarantee acceptance into the program. Members of the program faculty review each student's credentials and invite competitive candidates for an interview. Final admission is based on submitted materials (e.g., GRE scores, GPA, letters of reference, personal statement, clinical experience, research experience, and interview performance) and performance on the interview. More generally, the program faculty consider the applicant's abilities, past performance, match between faculty expertise/research interests and the applicant's career/academic goals, and the applicant's potential to successfully complete the program.

Students are admitted to full-time status and complete the MA program in two calendar years (including summers).

Application Deadlines

All application materials must be submitted by the appropriate deadline listed below. This program is offered at the Sanford/Lake Mary Campus.

Clinical Psychology MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 1	Jan 1		
International Applicants	Jan 1	Jan 1		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Brian Fisak PhD

Associate Professor

brian.fisak@ucf.edu

Telephone: 407-708-2822

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

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Institution Codes

GRE: 5233

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Communication MA

College: Sciences	Degree: MA
Department: Nicholson School of Communication and Media	Option: Thesis, Nonthesis
Program Website: https://communication.ucf.edu/degree/communication/	
Graduate Program Handbook	

Program Description

UCF's Master of Arts in Communication prepares students for a wide range of professions in academia and the public and private sectors. This program, comprised of industry-leading scholars and professionals, provides students with the knowledge to succeed as expert communicators - all within a convenient and practical curriculum.

The Nicholson School of Communication and Media's communication and digital media programs joined the Florida Interactive Entertainment Academy (FIEA) at UCF Downtown, a 21st-century campus with access to arts, culture, nightlife, and business.

Curriculum

The MA degree program in Communication is a four-semester program for full-time students. Part-time students make take up to seven years to complete the program. Both thesis and nonthesis options are offered and both consist of a minimum of 33 semester hours of work. By the end of their first 18 hours of coursework, the student should decide whether to pursue the thesis or nonthesis option. During their first six hours of study, students are required to complete COM 6008 Proseminar in Communication and COM 5312 Introduction of Communication Research.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

All required courses must be completed with a grade of B- or higher.

- COM 5312 - Introduction of Communication Research **3 Credit Hours**
- COM 6008 - Proseminar in Communication **3 Credit Hours**
- COM 6401 - Communication Theory **3 Credit Hours**

Research Methods Concentration—3 Credit Hours (Choose one course)

- COM 6303 - Qualitative Research Methods in Communication **3 Credit Hours**
- COM 6304 - Quantitative Research Methods in Communication **3 Credit Hours**

Elective Courses—18 Credit Hours

In addition to the courses listed below, special topics courses, study abroad courses, independent study, directed research, internship, and graduate-level courses taken outside the Nicholson School of Communication and Media may be counted as restricted electives, pending approval by the program director.

- ADV 6209 - Advertising and Society **3 Credit Hours**
- COM 5932 - Topics in Communication Theory and Research **3 Credit Hours**
- COM 6046 - Interpersonal Communication **3 Credit Hours**
- COM 6047 - Interpersonal Support in the Workplace **3 Credit Hours**
- COM 6048 - Communication in Close Relationships **3 Credit Hours**
- COM 6121 - Communication Management **3 Credit Hours**
- COM 6145 - Organizational Communication **3 Credit Hours**
- COM 6425 - Symbolism in Terrorism **3 Credit Hours**
- COM 6463 - Studies in Intercultural Communication **3 Credit Hours**
- COM 6466 - Persuasion in the Media **3 Credit Hours**
- COM 6467 - Studies in Persuasion **3 Credit Hours**
- COM 6468 - Communication and Conflict **3 Credit Hours**
- COM 6535 - Communication Campaigns **3 Credit Hours**
- COM 6525 - Communication Strategy and Planning **3 Credit Hours**
- MMC 6202 - Legal and Ethical Issues for Communication **3 Credit Hours**
- MMC 6307 - International Communication **3 Credit Hours**
- MMC 6567 - New Media **3 Credit Hours**
- MMC 6600 - Media Effects and Audience Analysis **3 Credit Hours**
- MMC 6612 - Communication and Government **3 Credit Hours**
- MMC 6735 - Social Media as Mass Communication **3 Credit Hours**
- PUR 6005 - Theories of Public Relations **3 Credit Hours**
- PUR 6215 - Communicating Corporate Social Responsibility **3 Credit Hours**
- PUR 6403 - Crisis Public Relations **3 Credit Hours**
- PUR 6405 - Communication and Public Relations in Politics and Government **3 Credit Hours**
- SPC 6340 - Teaching Communication **3 Credit Hours**
- SPC 6442 - Small Group Communication **3 Credit Hours**

Thesis Option—3 Credit Hours

The thesis option requires a minimum of 3 hours of thesis credit and a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed the three core courses and their thesis committee has been approved by the department, college, and Graduate Studies.

The student's permanent faculty adviser will chair their committee, which also will include two additional graduate faculty members in the Nicholson School of Communication and Media. One additional member, who is also a graduate faculty member, may be added from outside the NSCM. All members of the thesis committee are selected in consultation with the student's permanent faculty adviser.

When a topic has been selected, students, in conjunction with their permanent adviser, will develop a thesis proposal. Copies of the proposal will be routed to members to their thesis committee and a proposal hearing scheduled. All

student must pass a proposal hearing as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.

- COM 6971 Thesis (minimum of 3 credit hours, can be taken individually)

Nonthesis Option—3 Credit Hours

Students who decide not to complete a thesis may choose to complete either the comprehensive examination nonthesis option OR an applied professional project nonthesis option.

Nonthesis Option 1: Comprehensive Examination—3 Credit Hours

The nonthesis comprehensive examination option is a four-examination requirement that assesses students' coursework competency. Students who choose the comprehensive examination option must take one additional elective course (three credit hours) and successfully complete the comprehensive examinations. Upon completing their 18th hour in the program, students must select a permanent advisor and form a comprehensive exam committee. The examinations will cover research methods, communication theory, and elective areas selected together by the student with his or her comprehensive examination committee. In order to fulfill the comprehensive exam requirement, the student must earn a passing grade on all exams. If a student fails to pass any of the comprehensive exam area questions, they are allowed two additional attempts to satisfy the comprehensive exam requirement. Once an exam in an area is passed, the student does not have to sit for that exam area again. Students are allowed three attempts to satisfy the comprehensive exam requirement. Students are expected to refer to the Communication MA Graduate Program Handbook for the comprehensive examination protocol.

- Elective **3 Credit Hours**
- Comprehensive examination

Nonthesis Option 2: Applied Professional Project—3 Credit Hours

The nonthesis applied project option requires students to demonstrate their ability to apply the knowledge and skills learned in the graduate program to a problem/topic that integrates the range of communication theory, practice, and research presented throughout the program. Upon completing their 18th hours in the program, each student must select a permanent advisor and form an applied project committee. The student will work directly with a faculty adviser to develop a project and the adviser will supervise the project. The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met.

Students who choose this nonthesis option will enroll in the semester the student completes the project:

- COM 6909 Research Report **3 Credit Hours**

Equipment Fee

Full-time students in the Communication MA program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

Students who elect the thesis option engage in independent learning through the design and implementation of original research in the thesis process. Students who pursue the comprehensive examination option experience independent learning through their individual preparation for each of four comprehensive examinations. Students who pursue the applied project option engage in applied, original communication research in an applied setting. All students engage in independent learning in every Communication core course. A research paper or project is required in each of these classes. The papers and projects provide independent learning by requiring students to design and carry out research

projects and develop analytical papers, some of which are submitted to conferences and/or journals for peer review. Internships and independent studies are also common opportunities for independent learning in the Communication MA program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants should adhere to the application requirements outlined below. An application will not be reviewed for admission until it is verified as complete by the UCF College of Graduate Studies.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts
- Résumé or CV
- Statement of Purpose
- Two letters of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The following information is required for those who wish to be considered for funding initiated by the Nicholson School of Communication and Media, but is recommended for all applicants:

- Additional letter of recommendation (total of three)

Application Deadlines

Communication MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	June 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. Applications are currently being reviewed for Fall admittance only.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Assistantships

The majority of financial assistance provided by the Nicholson School of Communication and Media graduate program is granted through assistantships. Preference will be given to applicants who complete their application for admission prior to the January 15th priority deadline. It is the applicants' responsibility to ensure they have a complete application on file by the priority deadline. Applicants may indicate their interest in an assistantship in the application and follow up with the admission specialist or program coordinator. Students on assistantship are paid a stipend, receive tuition support, and are eligible for health insurance. For general information regarding assistantships at UCF, refer to the Assistantships (www.students.graduate.ucf.edu/assistantships) section of the College of Graduate Studies website.

The Nicholson School of Communication and Media offers primarily two types of assistantships:

- Graduate Teaching Assistants are assigned to work with faculty members and assist them with their teaching responsibilities. This includes assisting with large lecture classes, grading exams, compiling information for lectures, and working with students, as instructed, to help keep a class operating smoothly.
- Graduate Teaching Associates are graduate students who, after completing eighteen hours of their graduate program of study and the required university and department training, are assigned to teach their own sections of undergraduate courses. Typically, Graduate Teaching Associates teach SPC 1608 (Fundamentals of Oral Communication) or SPC 1603 (Fundamentals of Technical Presentation).

Contact Info

Graduate Program

Bridget Rubenking, PhD

Associate Professor and MA Program Coordinator

bridget.rubenking@ucf.edu

Telephone: 407-823-1711

CMB 170H

Kelsey Loftus

NSCM Graduate Admissions Specialist

nicholsongrad@ucf.edu

Telephone: 407-823-5595

CMB 203

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Communication Sciences and Disorders MA

College: Health Professions and Sciences	Degree: MA
Department: School of Communication Sciences and Disorders	Option: Thesis, Nonthesis
Program Websites: https://healthprofessions.ucf.edu/csd/masters/	
Graduate Program Handbook	

Program Description

The School of Communication Sciences and Disorders offers three plans of study leading to the Master of Arts degree: the Traditional, Consortium and Accelerated programs.

Each track is intended for those interested in working with children and adults who have communication disorders and is based on the same curriculum and degree requirements but allows students to follow different plans of study. Students enrolled in each track must follow a prescribed sequence of academic and clinical courses.

Each track provides academic and clinical education experiences necessary for certification by the American Speech-Language-Hearing Association (ASHA) and the Florida Department of Education, and licensure by the state of Florida. For information on how this program may prepare students for professional licensure, please visit <https://healthprofessions.ucf.edu/csd/masters/>. The Council on Academic Accreditation (CAA) of the ASHA has accredited the Master of Arts Degree in Communication Sciences and Disorders since 1986.

The Communication Sciences and Disorders program strives to educate students to become successful practitioners in the field of speech-language pathology. To that end, the ASHA Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the ASHA Code of Ethics may be subject to academic sanctions or dismissed from the program.

The **Traditional** track is a two-year, full-time face-to-face program (six consecutive semesters, including two summers) for students with undergraduate degrees in communication sciences and disorders or speech-language pathology and audiology. For students with undergraduate degrees in other majors (out-of-field), the program requires additional prerequisite coursework. Students must begin the program in the semester for which they are admitted and must enroll full-time each semester.

The **Consortium** track is a cooperative effort between the UCF School of Communication Sciences and Disorders and the Central Florida Public School Consortium to address the critical shortage of public school speech-language pathologists in the area. Participating school districts in the Central Florida Consortium are Brevard, Citrus, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia.

The **Accelerated** track enables highly qualified current UCF undergraduate majors in communication sciences and disorders to achieve a master's degree in the UCF School of Communication Sciences and Disorders graduate program in one less semester than students in the Traditional track. This program is a BA/BS to MA program. Students are able to enroll in graduate-level courses while completing the bachelor's degree.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Communication-Sciences-Disorders-MA.pdf>.

Program Tracks

- Communication Sciences and Disorders MA, Accelerated BA/BS to MA Track
- Communication Sciences and Disorders MA, Consortium Track

Curriculum

The Communication Sciences and Disorders MA program consists of a minimum of 72 credit hours, including 38 credit hours of core academic courses, 9 credit hours of electives, and 25 credit hours of clinical practice. Thesis students take 6 credit hours of Thesis and one elective course (3 credit hours).

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

- To be certified to practice by the American Speech-Language-Hearing Association (ASHA), all students must have undergraduate transcript credit, which could include course work, advanced placement, CLEP, or examination equivalency, for each of the following areas: biological sciences, physical sciences, social/behavioral sciences, and statistics. Courses may consist of any number of credits and must be taken outside the discipline.
- All students must complete at least 3 credit hours in statistics with a grade of "C" or better. Undergraduate or graduate course work in statistics is a prerequisite to SPA 6805 - Research in Communicative Disorders.
- The program admits qualified in-field applicants, with an undergraduate degree in communication sciences and disorders or speech-language pathology and audiology, and out-of-field applicants, with undergraduate degrees in other majors. Out-of-field students require an additional 21 to 27 credit hours of prerequisite course work that may be completed in approximately two semesters once admitted.

Out-of-field students must complete the following undergraduate prerequisite courses or their equivalents **once admitted**:

- STA 2014C - Principles of Statistics **3 Credit Hours** or
- STA 2023 - Statistical Methods I **3 credit hours**
- LIN 3716/3716L - Language Development and Lab **5 Credit Hours**
- SPA 3101 - Physiological Bases of Speech and Hearing **3 Credit Hours**
- SPA 3104 - Neural Bases of Communication **3 Credit Hours**
- SPA 3112C - Basic Phonetics and Lab **4 Credit Hours**
- SPA 3011 - Speech Science **3 Credit Hours**
- SPA 4032 - Audiology **3 Credit Hours**

Required Courses: 38 Credit Hours

- SPA 6204 - Articulation/Phonological Dis **3 Credit Hours**
- SPA 6211C - Voice Disorders **4 Credit Hours**
- SPA 6225C - Fluency Disorders **4 Credit Hours**
- SPA 6236 - Motor Speech Disorders in Adults and Children **3 Credit Hours**
- SPA 6327 - Aural Habilitation Rehab **3 Credit Hours**
- SPA 6410 - Aphasia and Related Disorders **3 Credit Hours**
- SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations **3 Credit Hours**
- SPA 6541 - Assessment of Language Disorders in Children and Adolescents **3 Credit Hours**
- SPA 6542 - Intervention of Language Disorders in Children and Adolescents **3 Credit Hours**
- SPA 6559 - Augmentative and Alternative Communication **3 Credit Hours**
- SPA 6565 - Feeding and Swallowing Disorders **3 Credit Hours**
- SPA 6805 - Research in Communicative Disorders **3 Credit Hours**

Clinical Practice: 25 Credit Hours

Supervised clinical practice is an integral part of the graduate program in Communication Sciences and Disorders. It provides students with an opportunity to apply classroom knowledge to the evaluation and management of individuals with a wide variety of communication disorders. Students complete three clinical practica at the UCF Communication Disorders Clinic and other affiliated facilities, as well as external rotations in schools, hospitals, rehabilitation centers, skilled nursing facilities, long-term care facilities, community clinics, and private practices. Through these practica and external rotations, students obtain a minimum of 400 clock hours of supervised clinical experience in accordance with the guidelines outlined by the American Speech-Language-Hearing Association (ASHA). Clinical practica and external rotations vary in length and do not always coincide with the academic calendar.

- SPA 6551 - Foundations of Clinical Practice: Level I **1 Credit Hours**
- SPA 6503 - Foundations of Clinical Practice Level II **1 Credit Hours**
- SPA 6503L - Found Clinic Practice-II APP **1 Credit Hours** (taken twice for 2 credit hours)
- SPA 6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology **1 Credit Hours**
- SPA 6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia **1 Credit Hours**
- SPA 6942 - Foundations of Clinical Practice: Level III **1 Credit Hours**
- SPA 6942L - Found Clinic Practice-III APP **1 Credit Hours** (taken twice for 2 credit hours)
- SPA 6943C - Clinical Practice Level I **3 Credit Hours**
- SPA 6946 - Clinical Practice: Level II **3 Credit Hours**
- SPA 6946 - Clinical Practice: Level III **10 Credit Hours**

Thesis Option: 9 Credit Hours

Students who elect this option complete a thesis in Communication Sciences and Disorders for 6 credit hours and select one elective in consultation with a faculty advisor.

Thesis hours cannot be counted toward graduation requirements if students fail to complete or successfully defend their thesis. For additional information, thesis students and their advisory committees should refer to the thesis requirements in the UCF Graduate Catalog.

- SPA 6971 - Thesis **6 Credit Hours**
- Elective **3 Credit Hours**

Nonthesis Option: 9 Credit Hours

Students who elect this option must select three electives in consultation with a faculty adviser.

- Electives **9 Credit Hours**

Comprehensive Examination

Passing a School Comprehensive Examination is a requirement for completion of the master's degree in Communication Sciences and Disorders.

Equipment Fee

Students in the Communication Sciences and Disorders MA Program pay a \$90 equipment fee each semester they are enrolled.

Additional Program Costs

The program requires students to pay additional fees for the required background checks, clinic uniform, and registration for the academic/clinical competencies tracking system.

Sample Plan of Study for the Traditional Program

The Traditional MA program requires a prescribed sequence of academic and clinical courses which may vary according to the semester of entry. The following is a sample plan of study.

Semester 1

- SPA 6204 - Articulation/Phonological Dis **3 Credit Hours**
- SPA 6541 - Assessment of Language Disorders in Children and Adolescents **3 Credit Hours**
- SPA 6542 - Intervention of Language Disorders in Children and Adolescents **3 Credit Hours**
- SPA 6805 - Research in Communicative Disorders **3 Credit Hours**
- SPA 6551 - Foundations of Clinical Practice: Level I **1 Credit Hours**

Semester 2

- SPA 6225C - Fluency Disorders **4 Credit Hours**
- SPA 6410 - Aphasia and Related Disorders **3 Credit Hours**
- SPA 6559 - Augmentative and Alternative Communication **3 Credit Hours**
- SPA 6503 - Foundations of Clinical Practice Level II **1 Credit Hours**
- SPA 6503L - Found Clinic Practice-II APP **1 Credit Hours (X 2)**

Semester 3

- SPA 6211C - Voice Disorders **4 Credit Hours**
- SPA 6327 - Aural Habilitation Rehab **3 Credit Hours**
- SPA 6565 - Feeding and Swallowing Disorders **3 Credit Hours**
- SPA 6942 - Foundations of Clinical Practice: Level III **1 Credit Hours**
- SPA 6942L - Found Clinic Practice-III APP **1 Credit Hours (X 2)**
- SPA 6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology **1 Credit Hours**

Semester 4

- SPA 6236 - Motor Speech Disorders in Adults and Children **3 Credit Hours**
- SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations **3 Credit Hours**
- SPA 6943C - Clinical Practice Level I **3 Credit Hours**
- Elective **3 Credit Hours**
- SPA 6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia **1 Credit Hours**

Semester 5

- SPA 6946 - Clinical Practice: Level II **3 Credit Hours**
- Elective **3 Credit Hours**
- Elective **3 Credit Hours**

Semester 6

- SPA 6946 - Clinical Practice: Level III **10 Credit Hours**

Independent Learning

All students in the Master of Arts in Communication Sciences and Disorders program engage in independent learning through inquiry, dialogue, and practice. Experiences such as client case studies, scholarly reviews, research projects, clinical practica and external rotations provide students independent learning opportunities to attain knowledge, skills, and professional behaviors. In capstone external rotations, students bridge university classroom and clinic lessons to real-world educational and health-related settings.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Master of Arts in Communication Sciences and Disorders program at UCF participates in the Communication Sciences and Disorders Centralized Application Service, known as CSDCAS. Prospective students applying to the Communication Sciences and Disorders MA program at UCF must apply online using the CSDCAS application in addition to the UCF online application. To learn more about the CSDCAS application process, visit <http://www.capcsd.org/csdcas-student-page/>

Step 1: Complete the CSDCAS application for the UCF program

- Complete CSDCAS Application (<https://csdcas.liaisoncas.com/applicant-ux/#/login>)
- One official transcript (in a sealed envelope) from each college/university attended. Transcripts **must** be sent directly to CSDCAS.
- Official, competitive GRE score (verbal, quantitative, and written) obtained within the last five years. Use GRE CODE for UCF CSDCAS: **7407**. (Do not use the "Institution Code" for GRE listed to the right).
- Three (3) letters of recommendation with CSDCAS recommendation forms, preferably two from current or former faculty members. Letters of recommendation cannot be dated more than one year prior to the date of the application deadline.
- A letter of intent describing educational background, professional experiences, future goals, interest in the field, why you want to attend UCF, other related information about your qualifications, and how you will embody and uphold the ASHA Code of Ethics (<http://www.asha.org/code-of-ethics/>) in your professional career.
- A current resume.
- All CSDCAS supplemental questions. Question can be found on CSDCAS application.
- UCF Graduate Application (supplemental) must be submitted by the deadline in addition to CSDCAS application.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- All international students must meet university minimum TOEFL score requirements regardless of language in which the undergraduate program was completed.

Incomplete applications will **NOT** be reviewed.

All application materials **MUST** be sent directly to CSDCAS. Materials sent to the university or program and not to CSDCAS will not be accepted. Application materials must be received by CSDCAS no later than October 1st for Spring admission and February 1st for Fall admission.

Students are responsible for their CSDCAS application being complete and verified. FAQ's on starting your CSDCAS application can be found here:

https://help.liaisonedu.com/CSDCAS_Applicant_Help_Center/Starting_Your_CSDCAS_Application

Step 2: Complete University of Central Florida's Graduate School application

In addition to your CSDCAS application, applicants must also submit a UCF application for graduate admission at <https://application.graduate.ucf.edu/>. Supporting documents (i.e. transcripts, test scores, etc.) do not need to be submitted to UCF directly. University applications must also be submitted by the stated application deadlines.

Admission to the Communication Sciences and Disorders program is granted on a competitive basis. Approximately thirty-five to forty-five (35-45) students are admitted each semester. Meeting the minimum admission requirements does not guarantee admission to the program. The recent class statistics are listed on the Graduate Program Profile webpage. Additionally, the program reserves the right to deny admission or dismiss a student after admission to the program if, in the judgment of the faculty, the student fails to demonstrate and/or uphold the ASHA Code of Ethics (<http://www.asha.org/code-of-ethics/>) during coursework and/or practice in the field.

Application Deadlines

The Traditional Track admits students twice per year for fall and spring semesters. The Consortium Track admits students once per year for the spring term.

Communication Sciences and Disorders MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1	Oct 1	
International Applicants	Dec 1	Dec 1	Sep 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Full-time students are eligible for a limited number of graduate teaching and research assistantships and for positions providing faculty assistance. In addition, there may be opportunities for funding through faculty grants or special incentives. For additional information, consult the School website.

Contact Info

Graduate Program

Jacqueline Towson

Associate Professor

csdgraduate@ucf.edu

Telephone: 407-823-4798

HS 101

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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Orlando, FL 32816-0112

Institution Codes

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GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Communication Sciences and Disorders MA, Accelerated BA/BS to MA Track

College: Health Professions and Sciences	Degree: MA
Department: School of Communication Sciences and Disorders	Option: Thesis, Nonthesis
Program Websites: https://healthprofessions.ucf.edu/csd/masters/	
Graduate Program Handbook	

Track Description

The School of Communication Sciences and Disorders offers an Accelerated BA/BS to MA Track for highly qualified UCF undergraduate majors in communication sciences and disorders that enables them to complete a master's degree in one less semester than students in the Traditional Track.

The program is intended for those interested in working with children and adults who have communication disorders. Once students complete the BA/BS, they must apply and be admitted to the master's degree program and follow a prescribed sequence of academic and clinical courses.

The Communication Sciences and Disorders program strives to educate students to become successful practitioners in the field of speech-language pathology. To that end, the American Speech-Language-Hearing Association (ASHA) Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the ASHA Code of Ethics may be subject to academic sanctions or dismissed from the program.

For information on how this program may prepare students for professional licensure, please visit <https://healthprofessions.ucf.edu/csd/masters/>.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Communication-Sciences-Disorders-MA.pdf>.

Curriculum

The School of Communication Sciences and Disorders offers an Accelerated BA/BS to MA program for highly qualified undergraduate majors in communication sciences and disorders. Undergraduate students enroll in up to 16 credit hours of graduate-level courses while completing the bachelor's degree. This enables students to achieve a master's degree in the UCF School of Communication Sciences and Disorders in one less semester.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Up to 16 credit hours of approved 6000-level courses, with grades of "B" (3.0) or better, may be counted toward the BA/BS and MA degrees. Additional requirements include:

- Adopting the most current catalog for students changing degree programs.
- Earning at least a "B" (3.0) in each undergraduate and graduate course to be counted toward the major.
- Being assessed tuition and fees at the graduate rate for graduate courses.

Undergraduate Requirements

The Shared Courses below may be used to replace:

- SPA 4400 Language Disorders Across the Life Span
- SPA 4476 Speech Disorders Across the Life Span
- SPA 4478 Multicultural Aspects of Communication Disorders and Differences
- SPA 4803 Research Methods in Communication Sciences and Disorders
- SPA 4870 Capstone Course
- one restricted elective in the undergraduate curriculum

Shared Courses

The following is a list of graduate courses that may be used to fulfill degree requirements for both the undergraduate and graduate programs.

- SPA 6204 - Articulation/Phonological Dis **3 Credit Hours**
- SPA 6410 - Aphasia and Related Disorders **3 Credit Hours**
- SPA 6551 - Foundations of Clinical Practice: Level I **1 Credit Hours**
- SPA 6805 - Research in Communicative Disorders **3 Credit Hours**
- SPA 6541 - Assessment of Language Disorders in Children and Adolescents **3 Credit Hours**
- SPA 6542 - Intervention of Language Disorders in Children and Adolescents **3 Credit Hours**

Required Courses: 38 Credit Hours

- SPA 6204 - Articulation/Phonological Dis **3 Credit Hours**
- SPA 6211C - Voice Disorders **4 Credit Hours**
- SPA 6225C - Fluency Disorders **4 Credit Hours**
- SPA 6236 - Motor Speech Disorders in Adults and Children **3 Credit Hours**
- SPA 6327 - Aural Habilitation Rehab **3 Credit Hours**
- SPA 6410 - Aphasia and Related Disorders **3 Credit Hours**
- SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations **3 Credit Hours**
- SPA 6559 - Augmentative and Alternative Communication **3 Credit Hours**
- SPA 6565 - Feeding and Swallowing Disorders **3 Credit Hours**
- SPA 6805 - Research in Communicative Disorders **3 Credit Hours**
- SPA 6541 - Assessment of Language Disorders in Children and Adolescents **3 Credit Hours**
- SPA 6542 - Intervention of Language Disorders in Children and Adolescents **3 Credit Hours**

Clinical Practice: 25 Credit Hours

Supervised clinical practice is an integral part of the graduate program in Communication Sciences and Disorders. It provides students with an opportunity to apply classroom knowledge to the evaluation and management of individuals

with a wide variety of communication disorders. Students complete three clinical practica at the UCF Communication Disorders Clinic and other affiliated facilities, as well as external rotations in schools, hospitals, rehabilitation centers, skilled nursing facilities, long-term care facilities, community clinics, and private practices. Through these practica and external rotations, students obtain a minimum of 400 clock hours of supervised clinical experience in accordance with the guidelines outlined by the American Speech-Language-Hearing Association (ASHA). Clinical practica and external rotations vary in length and do not always coincide with the academic calendar.

- SPA 6551 - Foundations of Clinical Practice: Level I **1 Credit Hours**
- SPA 6503 - Foundations of Clinical Practice Level II **1 Credit Hours**
- SPA 6503L - Found Clinic Practice-II APP **1 Credit Hours** (taken twice for 2 credit hours)
- SPA 6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology **1 Credit Hours**
- SPA 6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia **1 Credit Hours**
- SPA 6942 - Foundations of Clinical Practice: Level III **1 Credit Hours**
- SPA 6942L - Found Clinic Practice-III APP **1 Credit Hours** (taken twice for 2 credit hours)
- SPA 6943C - Clinical Practice Level I **3 Credit Hours**
- SPA 6946 - Clinical Practice: Level II **3 Credit Hours**
- SPA 6946 - Clinical Practice: Level III **10 Credit Hours**

Thesis Option: 9 Credit Hours

Students who elect this option complete a thesis in Communication Sciences and Disorders for 6 credit hours and select one elective in consultation with a faculty adviser.

Thesis hours cannot be counted toward graduation requirements if students fail to complete or successfully defend their thesis. For additional information, thesis students and their advisory committees should refer to the thesis requirements in the UCF Graduate Catalog.

- SPA 6971 - Thesis **6 Credit Hours**
- Elective **3 Credit Hours**

Nonthesis Option: 9 Credit Hours

Students who elect this option must select three electives in consultation with a faculty adviser.

- Electives **9 Credit Hours**

Comprehensive Examination

Passing a School Comprehensive Examination is a requirement for completion of the master's degree in Communication Sciences and Disorders.

Equipment Fee

Students in the Communication Sciences and Disorders MA Program pay a \$90 equipment fee each semester they are enrolled.

Additional Program Cost

The program requires students to pay additional fees for the required background checks, clinic uniform, and registration for the academic/clinical competencies tracking system.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated B.A./B.S. to M.A. track in Communication Sciences and Disorders allows highly qualified University of Central Florida undergraduate majors in Communication Sciences and Disorders to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the Accelerated Track either in the last semester of their sophomore year or the first semester of their junior year.

To be considered to the Accelerated B.A./B.S. to M.A. track, applicants must submit a hard copy (paper) application for the bachelor's program directly to the School of Communication Sciences and Disorders. Please contact the school for the appropriate application form and additional documents required.

Following acceptance to the Accelerated B.A./B.S. to M.A. track, an electronic application for admission to the graduate program must be submitted by the application deadline, normally during the senior year of the bachelor's program.

When completing the graduate application, student will follow general UCF graduate application requirements. Applicants to this program must also provide:

- Completed CSDCAS Application (<https://csdcas.liaisoncas.com/applicant-ux/#/login>)
- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score (verbal, quantitative, and written) obtained within the last five years. Use GRE CODE for UCF CSDCAS: **7407**. (Do not use the "Institution Code" for GRE listed to the right).
- Three (3) letters of recommendation with CSDCAS recommendation forms, preferably two from current or former faculty members. Letters of recommendation cannot be dated more than one year prior to the date of the application deadline.
- A current résumé.
- A letter of intent describing educational background, professional experiences, future goals, interest in the field, why you want to attend UCF, other related information about your qualifications, and how you will embody and uphold the ASHA Code of Ethics (<http://www.asha.org/code-of-ethics/>) in your professional career.
- UCF Graduate Application (supplemental) must be submitted by the deadline in addition to CSDCAS application.

A formal admission decision for the master's program will be made following receipt of the graduate application. Successful completion of the bachelor's degree does not guarantee admission to the master's program. The Communication Sciences and Disorders program reserves the right to deny admission or dismiss a student after admission to the program if, in the judgment of the faculty, the student fails to demonstrate and/or uphold the ASHA Code of Ethics (<http://www.asha.org/code-of-ethics/>) in coursework or practice in the field. A background check is required for all new students during their first semester in the master's program.

Application Deadlines

The Traditional Track admits students twice per year for the fall and spring terms. The Consortium Track admits students once per year in the spring.

Accelerated BA/BS to MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1	Oct 1	
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Full-time students are eligible for a limited number of graduate teaching and research assistantships and for positions providing faculty assistance. In addition, there may be opportunities for funding through faculty grants or special incentives. For additional information, consult the school website.

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Jacqueline Towson

Associate Professor

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finaid@ucf.edu
<http://finaid.ucf.edu>

Communication Sciences and Disorders MA, Consortium Track

College: Health Professions and Sciences	Degree: MA
Department: School of Communication Sciences and Disorders	Option: Thesis, Nonthesis
Program Websites: https://healthprofessions.ucf.edu/csd/masters/	
Graduate Program Handbook	

Track Description

The School of Communication Sciences and Disorders offers the Consortium track leading to the Master of Arts in Communication Sciences and Disorders.

The Consortium track is designed specifically for students with a bachelor's degree in communication sciences and disorders or speech-language pathology and audiology who currently work in participating central Florida public school districts and have been providing speech and language services for at least one semester prior to application.

The goal of this program is to address the critical shortage of public-school speech-language pathologists. It represents a cooperative effort between the UCF School of Communication Sciences and Disorders and the Central Florida Public School Consortium. Participating school districts in the Central Florida Consortium are Brevard, Citrus, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia.

The Communication Sciences and Disorders program strives to educate students to become successful practitioners in the field of speech-language pathology. To that end, the American Speech-Language-Hearing Association (ASHA) Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the ASHA Code of Ethics may be subject to academic sanctions or dismissed from the program.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Communication-Sciences-Disorders-MA.pdf>.

Curriculum

The Consortium track in the Communication Sciences and Disorders MA program consists of a minimum of 72 credit hours, including 38 credit hours of core academic courses, 9 credit hours of thesis or electives, and 25 credit hours of clinical practice. Consortium track students typically complete one external rotation outside of the school setting. The second external rotation must be completed in a school setting that is different from the practitioner's primary employment setting.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

All students must complete at least 3 credit hours in statistics with a grade of "C" or better. Undergraduate course work in statistics is a prerequisite to SPA 6805 - Research in Communicative Disorders.

To be certified to practice by the American Speech-Language-Hearing Association (ASHA), all students must have undergraduate transcript credit, which could include course work, advanced placement, CLEP, or examination equivalency, for each of the following areas: biological sciences, physical sciences, social/behavioral sciences, and statistics. Courses may consist of any number of credits and must be taken outside the discipline.

Required Courses: 38 Credit Hours

- SPA 6204 - Articulation/Phonological Dis **3 Credit Hours**
- SPA 6211C - Voice Disorders **4 Credit Hours**
- SPA 6225C - Fluency Disorders **4 Credit Hours**
- SPA 6236 - Motor Speech Disorders in Adults and Children **3 Credit Hours**
- SPA 6327 - Aural Habilitation Rehab **3 Credit Hours**
- SPA 6410 - Aphasia and Related Disorders **3 Credit Hours**

- SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations **3 Credit Hours**
- SPA 6559 - Augmentative and Alternative Communication **3 Credit Hours**
- SPA 6565 - Feeding and Swallowing Disorders **3 Credit Hours**
- SPA 6805 - Research in Communicative Disorders **3 Credit Hours**
- SPA 6541 - Assessment of Language Disorders in Children and Adolescents **3 Credit Hours**
- SPA 6542 - Intervention of Language Disorders in Children and Adolescents **3 Credit Hours**

Clinical Practice: 25 Credit Hours

Supervised clinical practice is an integral part of the graduate program in communication sciences and disorders. It provides students with an opportunity to apply classroom knowledge to the evaluation and management of individuals with a wide variety of communication disorders. Students complete three clinical practica at the UCF Communication Disorders Clinic and other affiliated facilities, as well as external rotations in schools, hospitals, rehabilitation centers, skilled nursing facilities, long-term care facilities, community clinics, and private practices. Through these practica and external rotations, students obtain a minimum of 400 clock hours of supervised clinical experience in accordance with the guidelines outlined by the American Speech-Language-Hearing Association (ASHA). Clinical practica and external rotations vary in length and do not always coincide with the academic calendar.

- SPA 6551 - Foundations of Clinical Practice: Level I **1 Credit Hours**
- SPA 6503 - Foundations of Clinical Practice Level II **1 Credit Hours**
- SPA 6503L - Found Clinic Practice-II APP **1 Credit Hours** (taken twice for 2 credit hours)
- SPA 6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology **1 Credit Hours**
- SPA 6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia **1 Credit Hours**
- SPA 6942 - Foundations of Clinical Practice: Level III **1 Credit Hours**
- SPA 6942L - Found Clinic Practice-III APP **1 Credit Hours** (taken twice for 2 credit hours)
- SPA 6943C - Clinical Practice Level I **3 Credit Hours**
- SPA 6946 - Clinical Practice: Level II **3 Credit Hours**
- SPA 6946 - Clinical Practice: Level III **10 Credit Hours**

Thesis Option: 9 Credit Hours

Students who elect this option complete a thesis in Communication Sciences and Disorders for 6 credit hours and select one elective in consultation with a faculty adviser.

Thesis hours cannot be counted toward graduation requirements if students fail to complete or successfully defend the thesis. For additional information, thesis students and their advisory committees should refer to the thesis requirements in the UCF Graduate Catalog.

- SPA 6971 - Thesis **6 Credit Hours**
- Elective **3 Credit Hours**

Nonthesis Option: 9 Credit Hours

Students who elect this option must select three electives in consultation with a faculty adviser.

- Electives **9 Credit Hours**

Comprehensive Examination

Passing a School Comprehensive Examination is a requirement for completion of the master's degree in Communication Sciences and Disorders.

Equipment Fee

Students in the Communication Sciences and Disorders MA Program pay a \$90 equipment fee each semester that they are enrolled.

Additional Program Costs

The program requires students to pay additional fees for the required background checks, clinic uniform, and registration for the academic/clinical competencies tracking system.

Independent Learning

All students in the Master of Arts in communication sciences and disorders program engage in independent learning through inquiry, dialogue, and practice. Experiences such as client case studies, scholarly reviews, research projects, clinical practica and external rotations provide students independent learning opportunities to attain knowledge, skills and professional behaviors. In capstone external rotations, students bridge university classroom and clinic lessons to real-world educational and health-related settings

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Master of Arts in Communication Sciences and Disorders program at UCF participates in the Communication Sciences and Disorders Centralized Application Service, known as CSDCAS. Prospective students applying to the Communication Sciences and Disorders MA program must apply online using the CSDCAS application in addition to the UCF online application. To learn more about the CSDCAS application process, visit <http://www.capsd.org/csdcas-student-page/>

Entry Terms: The Consortium track admits for spring term only. Please note that admission is granted for the spring term only and for this specific track. Applicants may not change start terms or tracks after an admission decision has been made. If the applicant determines that they cannot accept the offer of admission as presented in the admission letter, they must rescind the offer and may apply to the desired track in the next admissions cycle.

Step 1: Complete the CSDCAS application for UCF

Completed CSDCAS Application (<https://csdcas.liaisoncas.com/applicant-ux/#/login>)

One official transcript (in a sealed envelope) from each college/university attended.

Official, competitive GRE score (verbal, quantitative, and written) obtained within the last five years. Use **GRE CODE for UCF CSDCAS: 7407**. (Do not use the "Institution Code" for GRE listed to the right side of this page).

Three (3) letters of recommendation with CSDCAS recommendation forms. One of the three letters of recommendation must be from the district school administrator or program specialist of the Speech-Language Program of the employing

school district, one from the school principal, and one from a former professor. Letters of recommendation cannot be dated more than one year prior to the date of the application deadline.

A letter of intent describing educational background, professional experiences, future goals, and how you will embody and uphold the ASHA Code of Ethics (<http://www.asha.org/code-of-ethics/>) in your professional career

A current resume.

All CSDCAS supplemental questions. Question can be found on CSDCAS application.

UCF Graduate Application (supplemental) must be submitted by the deadline in addition to CSDCAS application.

Incomplete applications will NOT be reviewed.

All application materials MUST be sent directly to CSDCAS. Materials sent to the university or program will not be accepted. Application materials must be received by CSDCAS no later than February 1st for Summer admission.

Step 2: Complete University of Central Florida's Graduate School application

In addition to the CSDCAS application, applicants must also submit a UCF application for graduate admission at <https://application.graduate.ucf.edu/>. Supporting documents (i.e. transcripts, test scores, etc.) do not need to be submitted to UCF directly. University applications must also be submitted by the stated application deadlines.

Admission to the Communication Sciences and Disorders program is granted on a competitive basis. Approximately thirty-five to forty-five (35-45) students are admitted each semester. Meeting the minimum admission requirements does not guarantee admission to the program. The recent class statistics are listed on the Graduate Program Profile webpage. Additionally, the program reserves the right to deny admission or dismiss a student after admission to the program if, in the judgment of the faculty, the student fails to demonstrate and/or uphold the ASHA Code of Ethics (<http://www.asha.org/code-of-ethics/>) during coursework and/or practice in the field. A background check is required for all new students during their first semester in the program. All applicants and admitted students must perform certain Essential Functions in order to participate and complete program requirements.

Application Deadlines

The Traditional Track admits students twice per year for the fall and spring terms. The Consortium Track admits students once per year in the spring.

Communication Sciences and Disorders Consortium	*Fall Priority	Fall	Spring	Summer
Domestic Applicants			Oct 1	
International Applicants			Sep 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial

assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Consortium students are not typically eligible for fellowships or graduate assistantship positions since they require full-time enrollment. However, if you would like information about the options available for financial support through the School of Communication Sciences and Disorders, please consult the school website.

Contact Info

Graduate Program

Linda I. Rosa-Lugo, EdD

Associate Professor

csdgraduate@ucf.edu

Telephone: 407-823-4798

HS2 101

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Computer Engineering MSCpE

College: Engineering and Computer Science	Degree: MSCpE
Department: Electrical and Computer Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.ece.ucf.edu/	
Graduate Program Handbook	

Program Description

The Computer Engineering MSCpE degree offers programs in a number of technical (research) areas, such as Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA).

All programs offer a thesis option and a nonthesis option, as well as an Accelerated BS to MS program. Students in the program receive a broad background in the various technical areas while specializing in a research area of their interest.

The specific research areas that each one of the EE faculty focuses on can be found at the Department of Electrical Engineering website (www.ece.ucf.edu/).

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Computer-Engineering-MS.pdf>.

Program Tracks

- Computer Engineering MSCpE, Accelerated BS to MSCpE Track

Curriculum

The master's program offers both thesis and nonthesis options in four technical specialization areas. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework, exclusive of thesis and research, plus 6 credit hours of thesis. The nonthesis option requires 30 credit hours of coursework with at least 24 credit hours of formal coursework and a possibility of 6 credit hours of Independent Study (XXX 6908) based on the availability of interested faculty.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The master's program offers both thesis and nonthesis options in four technical specialization areas. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework, exclusive of thesis and research, plus 6 credit hours of thesis. The nonthesis option requires 30 credit hours of coursework with at least 24 credit hours of formal coursework and a possibility of 6 credit hours of Independent Study (XXX 6908) based on the availability of interested faculty.

Articulation Courses

Undergraduate articulation courses are required for students with bachelor's degrees in fields other than Computer Engineering. In general, all students must have completed the following undergraduate courses (or their equivalents in an accredited BSCpE program) before admission to our graduate program. Students who have taken these courses must complete the articulation courses listed below, plus all prerequisites, that they require. Grades of "B" or higher must be obtained in each articulation course. Articulation courses are not eligible for inclusion on a student's Graduate Program of Study.

- EEE 3342C: Digital Systems
- EEL 3801: Computer Organization
- COP 3502: Computer Science I
- COP 3503: Computer Science II

Plus choose ONE of the following:

- COP 4331: Processes for Object-Oriented Development
- EEL 4768C: Computer Architecture
- EEL 4781: Computer Communications Networks

Elective Courses: 24 Credit Hours

There are no required courses within a specialization area. However, all students (thesis and nonthesis) must choose at least 24 credit hours of formal courses, excluding research-related courses and independent study (XXX 6908), which emphasize their specialization area. Courses from outside specialization areas could also be chosen if the student's adviser approves such a Program of Study.

The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog and must also receive departmental-level and college-level approval.

Specialization Areas

The Computer Engineering Program supports a number of specialization areas. These specialization areas are (in alphabetical order): Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA).

In each one of these areas there is a suggested list of courses. Students are also allowed to take courses from the suggested list of courses in areas other than their specialization area, but the majority of their courses should be chosen from courses in their specialization area.

Computer Networks and Computer Security (CNCS)

- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 5110 - Parallel Architecture and Algorithms **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 5008 - Computer Communication Networks Architecture **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**
- CNT 6519 - Wireless Security and Forensics **3 Credit Hours**
- CNT 6707 - Advanced Computer Networks **3 Credit Hours**
- COP 5537 - Network Optimization **3 Credit Hours**
- COP 5611 - Operating Systems Design Principles **3 Credit Hours**
- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6135 - Malware and Software Vulnerability Analysis **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**
- EEL 5780 - Wireless Networks **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**
- EEL 6785 - Computer Network Design **3 Credit Hours**
- EEL 6788 - Advanced Topics in Computer Networks **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**

Computer Systems and Very Large Scale Integration (CS/VLSI)

- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 5110 - Parallel Architecture and Algorithms **3 Credit Hours**
- CDA 6107 - Parallel Computer Architecture **3 Credit Hours**
- CDA 6938 Multi-Core Architecture and Programming **3 Credit Hours**
- COP 5537 - Network Optimization **3 Credit Hours**
- EEE 5390C - Full-Custom VLSI Design **3 Credit Hours**
- EEL 5722C - Field-Programmable Gate Array (FPGA) Design **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**
- ECM 6308 - Current Topics in Parallel Processing **3 Credit Hours**

Intelligent Systems and Machine Learning (ISML)

- CAP 5055 - AI for Game Programming **3 Credit Hours**
- CAP 5512 - Evolutionary Computation **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 5636 - Advanced Artificial Intelligence **3 Credit Hours**
- CAP 6545 - Machine Learning Methods for Biomedical Data **3 Credit Hours**
- CAP 6616 - Neuroevolution and Generative and Developmental Systems **3 Credit Hours**
- CAP 6640 - Computer Understanding of Natural Language **3 Credit Hours**

- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6675 - Complex Adaptive Systems **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EEL 6812 - Introduction to Neural Networks **3 Credit Hours**
- EEL 6875 - Autonomous Agents **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**

Software Systems and Algorithms (SSA)

- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**
- CAP 5510 - Bioinformatics **3 Credit Hours**
- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6545 - Machine Learning Methods for Biomedical Data **3 Credit Hours**
- CEN 5016 - Software Engineering **3 Credit Hours**
- CEN 6075 - Formal Specification of Software Systems **3 Credit Hours**
- COP 5021 - Program Analysis **3 Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems **3 Credit Hours**
- COP 6730 - Transaction Processing **3 Credit Hours**
- COP 6731 - Advanced Database Systems **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- COT 6410 - Computational Complexity **3 Credit Hours**
- COT 6417 - Algorithms on Strings and Sequences **3 Credit Hours**
- COT 5600 - Quantum Computing **3 Credit Hours**
- COT 6602 - Introduction to Quantum Information Theory **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**

Thesis Option: 6 Credit Hours

- EEL 6971 Thesis **6 Credit Hours**

The thesis option requires 24 credit hours of formal coursework in one of the specialization areas and the completion of 6 credit hours of thesis. Additional requirements are as follows:

- Courses must be chosen from the suggested list of courses for the student's chosen specialization area
- No more than 6 credits of thesis (XXX 6971) will be counted toward the degree requirement
- Fifteen credit hours (including EEL 6971 Thesis) must be 6000-level courses
- Thesis students who are full time must continue to enroll in three credit hours of thesis coursework each semester until the thesis requirement is satisfied, even if they take more than the required 6 credit hours of thesis. However, only 6 credit hours of thesis will count toward the degree requirement.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

Nonthesis Option: 6 Credit Hours

The nonthesis option is especially suitable for part-time students. Nonthesis students must complete 6 credit hours of electives in addition to the 24 credit hours of formal coursework described above. If desired by the student and approved by the student's adviser a total of 6 credit hours can be Independent Study (XXX 6908).

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal Date of the semester prior to their intended graduation. The portfolio requirements are listed on the EECS website at www.eecs.ucf.edu.

Transfer Credits

Graduate students with a bachelor's degree in Computer Engineering from UCF may transfer up to 9 credit hours of 5000-level or higher coursework, with grades of "B" or higher, toward the MSCpE degree. Alternatively, a maximum of 9 credit hours may be transferred of graduate work conducted elsewhere from an accredited institution.

Equipment Fee

Students in the Computer Engineering MSCpE program pay a \$28 equipment fee each semester that they are enrolled. Part-time students pay \$14 per semester.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in computer engineering or a closely related discipline.
- GRE is not required for MSCpE applicants with a BS degree in EE or CpE and with a minor in any of following disciplines of EE, CpE or CS.
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Application Deadlines

Computer Engineering MSCpE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kalpathy Sundaram PhD
 Professor
 eecpe-grad@eecs.ucf.edu
 Telephone: 407-823-5326
 HEC 439B

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Computer Engineering MSCpE, Accelerated BS to MSCpE Track

College: Engineering and Computer Science	Degree: MSCpE
Department: Electrical and Computer Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.ece.ucf.edu/	

Program Description

The Computer Engineering MSCpE degree offers programs in a number of technical (research) areas, such as Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA).

All programs offer a thesis option and a nonthesis option, as well as an Accelerated BS to MS program. Students in the program receive a broad background in the various technical areas, while specializing in a research area of their interest.

The specific research areas that each one of the EE faculty focuses on can be found at the Department of Electrical Engineering website (www.ece.ucf.edu/).

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Computer-Engineering-MS.pdf>.

Curriculum

The master's program offers both thesis and nonthesis options in four technical specialization areas. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework, exclusive of thesis and research, plus 6 credit hours of thesis. The nonthesis option requires 30 credit hours of coursework with at least 24 credit hours of formal coursework and a possibility of 6 credit hours of Independent Study (XXX 6908) based on the availability of interested faculty.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The master's program offers both thesis and nonthesis options in four technical specialization areas. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework, exclusive of thesis and research, plus 6 credit hours of thesis. The nonthesis option requires 30 credit hours of coursework with at least 24 credit hours of formal coursework and a possibility of 6 credit hours of Independent Study (XXX 6908) based on the availability of interested faculty.

Articulation Courses

Undergraduate articulation courses are required for students with bachelor's degrees in fields other than Computer Engineering. In general, all students must have completed the following undergraduate courses (or their equivalents in an accredited BSCpE program) before admission to our graduate program. Students who have taken these courses must complete the articulation courses listed below, plus all prerequisites, that they require. Grades of "B" or higher must be obtained in each articulation course. Articulation courses are not eligible for inclusion on a student's Graduate Program of Study.

- EEE 3342C: Digital Systems
- EEL 3801: Computer Organization
- COP 3502: Computer Science I
- COP 3503: Computer Science II

Plus choose ONE of the following:

- COP 4331: Processes for Object-Oriented Development
- EEL 4768C: Computer Architecture
- EEL 4781: Computer Communications Networks

Elective Courses: 24 Credit Hours

There are no required courses within a specialization area. However, all students (thesis and nonthesis) must choose at least 24 credit hours of formal courses, excluding research-related courses and independent study (XXX 6908), which

emphasize their specialization area. Courses from outside specialization areas could also be chosen if the student's adviser approves such a Program of Study.

The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog and must also receive departmental-level and college-level approval.

Specialization Areas

The Computer Engineering Program supports a number of specialization areas. These specialization areas are (in alphabetical order): Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA).

In each one of these areas there is a suggested list of courses. Students are also allowed to take courses from the suggested list of courses in areas other than their specialization area, but the majority of their courses should be chosen from courses in their specialization area.

Computer Networks and Computer Security (CNCS)

- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 5110 - Parallel Architecture and Algorithms **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 5008 - Computer Communication Networks Architecture **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**
- CNT 6519 - Wireless Security and Forensics **3 Credit Hours**
- CNT 6707 - Advanced Computer Networks **3 Credit Hours**
- COP 5537 - Network Optimization **3 Credit Hours**
- COP 5611 - Operating Systems Design Principles **3 Credit Hours**
- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6135 - Malware and Software Vulnerability Analysis **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**
- EEL 5780 - Wireless Networks **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**
- EEL 6785 - Computer Network Design **3 Credit Hours**
- EEL 6788 - Advanced Topics in Computer Networks **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**

Computer Systems and Very Large Scale Integration (CS/VLSI)

- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 5110 - Parallel Architecture and Algorithms **3 Credit Hours**
- CDA 6107 - Parallel Computer Architecture **3 Credit Hours**
- CDA 6938 Multi-Core Architecture and Programming **3 Credit Hours**
- COP 5537 - Network Optimization **3 Credit Hours**
- EEE 5390C - Full-Custom VLSI Design **3 Credit Hours**
- EEL 5722C - Field-Programmable Gate Array (FPGA) Design **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**

- ECM 6308 - Current Topics in Parallel Processing **3 Credit Hours**

Intelligent Systems and Machine Learning (ISML)

- CAP 5055 - AI for Game Programming **3 Credit Hours**
- CAP 5512 - Evolutionary Computation **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 5636 - Advanced Artificial Intelligence **3 Credit Hours**
- CAP 6545 - Machine Learning Methods for Biomedical Data **3 Credit Hours**
- CAP 6616 - Neuroevolution and Generative and Developmental Systems **3 Credit Hours**
- CAP 6640 - Computer Understanding of Natural Language **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6675 - Complex Adaptive Systems **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EEL 6812 - Introduction to Neural Networks **3 Credit Hours**
- EEL 6875 - Autonomous Agents **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**

Software Systems and Algorithms (SSA)

- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**
- CAP 5510 - Bioinformatics **3 Credit Hours**
- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6545 - Machine Learning Methods for Biomedical Data **3 Credit Hours**
- CEN 5016 - Software Engineering **3 Credit Hours**
- CEN 6075 - Formal Specification of Software Systems **3 Credit Hours**
- COP 5021 - Program Analysis **3 Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems **3 Credit Hours**
- COP 6730 - Transaction Processing **3 Credit Hours**
- COP 6731 - Advanced Database Systems **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- COT 6410 - Computational Complexity **3 Credit Hours**
- COT 6417 - Algorithms on Strings and Sequences **3 Credit Hours**
- COT 5600 - Quantum Computing **3 Credit Hours**
- COT 6602 - Introduction to Quantum Information Theory **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**

Thesis Option: 6 Credit Hours

The thesis option requires 24 credit hours of formal coursework in one of the specialization areas and the completion of 6 credit hours of thesis. Additional requirements are as follows:

- Courses must be chosen from the suggested list of courses for the student's chosen specialization area
- No more than 6 credits of thesis (XXX 6971) will be counted toward the degree requirement
- Fifteen credit hours (including EEL 6971 Thesis) must be 6000-level courses
- Thesis students who are full time must continue to enroll in three credit hours of thesis coursework each semester until the thesis requirement is satisfied, even if they take more than the required 6 credit hours of thesis. However, only 6 credit hours of thesis will count toward the degree requirement.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- EEL 6971 Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option is especially suitable for part-time students. Nonthesis students must complete 6 credit hours of electives in addition to the 24 credit hours of formal coursework described above. If desired by the student and approved by the student's adviser a total of 6 credit hours can be Independent Study (XXX 6908).

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal Date of the semester prior to their intended graduation. The portfolio requirements are listed on the EECS website at www.eecs.ucf.edu.

Transfer Credits

Graduate students with a bachelor's degree in Computer Engineering from UCF may transfer up to 9 credit hours of 5000-level or higher coursework, with grades of "B" or higher, toward the MSCpE degree. Alternatively, a maximum of 9 credit hours may be transferred of graduate work conducted elsewhere from an accredited institution.

Equipment Fee

Students in the Computer Engineering MSCpE program pay a \$28 equipment fee each semester that they are enrolled. Part-time students pay \$14 per semester.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in computer engineering or a closely related discipline.
- GRE is not required for MSCpE applicants with a BS degree in EE or CpE and with a minor in any of following disciplines of EE, CpE or CS
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Application Deadlines

Accelerated BS to MSCpE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kalpathy Sundaram PhD

Professor
eecpe-grad@eecs.ucf.edu
Telephone: 407-823-5326
HEC 439B

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Computer Science MS

College: Engineering and Computer Science	Degree: MS
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Department: Computer Science	Option: Thesis, Nonthesis
Program Websites: http://www.cs.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Computer Science program produces graduates with a high level of competency in understanding, applying, and enunciating the modern concepts, principles, methods, and theories necessary for the design and implementation of computing systems.

The Master of Science in Computer Science program provides students with an in-depth education geared toward meeting the needs of business and industry in Florida and throughout the United States. The program's goal is to produce graduates with a high level of competency in understanding, applying, and enunciating the modern concepts, principles, methods, and theories necessary for the design and implementation of computing systems.

Students in the program receive a broad background in the areas of programming systems and languages, computer architecture, and computer science theory while specializing in a research area. Research interests of the computer science faculty include affective computing, applied perception, bioinformatics, computational biology, computational geometry, computer and network security, computer architecture, computer forensics, computer graphics, computer networks, image processing, computer vision, cryptography, data compression, database management systems, data mining, design and analysis of algorithms, evolutionary computation, genetic algorithms, graph theory, hardware/software co-design, machine learning, mixed and virtual reality, mobile computing, modeling and simulation, multimedia systems, natural language processing, neural networks, parallel and distributed processing, performance evaluation, programming languages, quantum computing, semantic web, software agents, software engineering, and VLSI systems. The program has a long and respected history, having conferred MS degrees since 1968.

Students successfully completing this program will have exhibited breadth as well as depth of capability involving both theoretical aspects of computer science and practical considerations of computing.

Program Tracks

- Computer Science MS, Accelerated BS to MS Track

Curriculum

The Computer Science MS program offers both a thesis and nonthesis option with each option requiring a minimum of 30 credit hours beyond the bachelor's degree. At least half of these hours must be at the 6000-level. Both options require 12 credit hours of required core courses and thesis students must take 12 credit hours of electives and a minimum of 6 credit hours of thesis. Nonthesis students must take 18 credit hours of electives and complete a culminating experience as determined by the program's graduate committee.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in the following upper-division undergraduate courses:

- EEL 4768C Computer Architecture
- COP 4020 Programming Languages I
- COP 4600 Operating Systems
- COT 4210 Discrete Computational Structures

Required Courses: 12 Credit Hours

- **CDA 5106 - Advanced Computer Architecture 3 Credit Hours**
Both CDA 5106 and COT 5405 must be completed with a B or better. Students earning a B- or below will have to repeat the course(s) until they earn a B or better.
- **COT 5405 - Design and Analysis of Algorithms 3 Credit Hours**
- Any approved pair of Computer Science courses from a single research area that includes at least one 6000-level course **6 Credit Hours**
Both CDA 5106 and COT 5405 must be completed with a B or better. Students earning a B- or below will have to repeat the course(s) until they earn a B or better.

Examples of approved pairs include (but not limited to):

Operating Systems (OS) area (COP 5611 and COP 6614)

Computer Graphics area (CAP 5725 and CAP 6701)

Machine Learning area (CAP 5610 or CAP 5512 and CAP 6616 or CAP 6545)

Artificial Intelligence (AI) area (CAP 5636 and CAP 6640 or CAP 6676)

Computer Vision area (CAP 5415 and CAP 6411 or CAP 6412 or CAP 6419 or CAP 6835)

Parallel Architecture area (CDA 5110 and CDA 6107)

Network area (CNT 5008 and CNT 6707)

Software Engineering area (CEN 5016 and CEN 6081)

Database area (COP 5711 and COP 6731), etc.

The above list is only meant to provide some examples and is not comprehensive.

Elective Courses: 12 Credit Hours

All students, both thesis and nonthesis, are required to complete 12 credit hours of electives that are selected after consultation with the student's adviser.

At least half of the credit hours of both thesis and nonthesis students must be at the 6000 level. Furthermore, at least two 6000-level Computer Science formal courses (6 credit hours) must be taught by EECS faculty, exclusive of independent study and directed research and a total of 24 credit hours of formal courses must be earned exclusive of thesis. Approval may be granted for no more than 6 credit hours of electives to be taken outside of Computer Science, and such approval must occur prior to taking these outside courses.

- Electives **12 Credit Hours**

Thesis Option: 6 Credit Hours

Six credits of thesis are required with the professor who directs the student's thesis. The thesis experience is expected to span two semesters. Thesis students who are full-time must continue to enroll in 3 credit hours of thesis course work until the thesis requirement is satisfied, even if it goes beyond the minimum of 6 credit hours of thesis. Students are required to prepare and defend a formal thesis in accordance with university requirements.

- XXX 6971 Thesis (6 Credit Hours; prefix determined by disciplinary area of your thesis adviser, e.g., CAP, CDA, CEN, COP or COT 6971)

Nonthesis Option: 6 Credit Hours

The nonthesis option requires at least 6 additional credit hours of electives beyond the 12 credit hours of electives described above.

In addition, nonthesis students are required to engage in a culminating experience as determined by the program's graduate committee. Students in the nonthesis option may not take more than 6 credit hours of independent study (6908) and/or directed research (XXX 6918).

- Electives **6 Credit Hours**

Equipment Fee

Students in the Computer Science MS program pay a \$34 equipment fee each semester that they are enrolled. Part-time students pay \$17 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or an approved set of research-based classes for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Resume
- Letters of recommendation (encouraged but not required)

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

All application materials must be submitted by the appropriate deadline listed below.

Computer Science MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Liquang Wang PhD

Associate Professor

lwang@cs.ucf.edu

Telephone: 407-823-3187

HEC 437E

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Computer Science MS, Accelerated BS to MS Track

College: Engineering and Computer Science	Degree: MS
Department: Computer Science	Option: Thesis, Nonthesis

Track Description

The Accelerated BS to MS program in Computer Science allows highly qualified UCF undergraduate majors in Computer Science to take graduate-level courses that will count toward their MS degree while completing their BS degree program.

Curriculum

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Up to 12 credit hours of 5000- and 6000-level courses with a grade of "B" (3.0) or better may be counted toward the accelerated BS to MS program. Two additional requirements for the students in this program are:

- Students must earn at least a "B" (3.0) in each undergraduate- or graduate-level course counted for the program.
- Students must opt for this program no later than the beginning of their junior year.

Undergraduate Requirements

See the current version of the Undergraduate Catalog and the College of Engineering and Computer Science website for additional requirements for accelerated programs.

Graduate Requirements

For the thesis option, students must take at least 18 credit hours beyond the 12 credit hours counted toward the undergraduate degree and include 6 credit hours of thesis. For both the thesis and nonthesis options, the 18 credit hours need to include.

- CDA 5106 and COT 5405, both with a grade of "B" (3.0) or better (6 credit hours)
- Any approved pair of Computer Science courses (a 5000/6000 pair) in a single area of discourse, both with a grade of "B" (3.0) or better (6 credit hours)

Plan of Study

The Plan of Study is an agreement between the student, the program and the University that lists the coursework taken to satisfy the requirements for completing the degree. The Plan of Study for student is flexible and unique to each student. However, it must meet university, college and department requirements.

All graduate students must have a Plan of Study on file, approved by the adviser and graduate coordinator, by the completion of 9 credit hours after entering the program. The College of Graduate Studies automatically places a "hold" on future registration for noncompliance. The default adviser for nonthesis MS students is the Graduate Coordinator.

Equipment Fee

Students in the Computer Science MS program pay a \$34 equipment fee each semester that they are enrolled. Part-time students pay \$17 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or an approved set of research-based classes for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Computer Science allows highly qualified University of Central Florida undergraduate majors in Computer Science to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this

accelerated program, then they should apply to the Computer Science Program without a track selection. Additional information about this track may be located at: <http://www.cecs.ucf.edu/current-students/bs-ms-program/>.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Resume
- Letters of recommendation (encouraged but not required)

Application Deadlines

Accelerated BS to MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
This track is available to University of Central Florida undergraduate majors in Computer Science only.				
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Liquang Wang PhD
Associate Professor
lwang@cs.ucf.edu

Telephone: 407-823-3187
HEC 437E

Graduate Admissions

Ashley Rivera Mercado
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

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finaid@ucf.edu
<http://finaid.ucf.edu>

Computer Vision MS

College: http://www.cecs.ucf.edu/	Degree: MS
Department: http://www.crcv.ucf.edu/	Option: Thesis, Non-Thesis

Program Websites: <https://www.crcv.ucf.edu/>

Program Description

The Master of Computer Vision Program (MSCV) aims to provide technical skills and domain knowledge to the future professionals in acquiring, processing, analyzing, and understanding images, videos, 3D data, and other types of high-dimensional data of the real world. The fast-growing interests and investments in Artificial Intelligence (AI) have to be powered by a well-prepared workforce. This program meets the need created by the United States' shortage of AI personnel.

Curriculum

The curriculum for this degree program includes 6 required classes (18 credit hours) which form the backbone of graduate study for the field.

The remaining 12 credit hours can be selected from the list of elective courses. Electives outside of the provided list require approval from the student's adviser and program coordinator.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in the following upper-division undergraduate courses:

- EEL 4768C Computer Architecture
- COP 4020 Programming Languages I
- COP 4600 Operating Systems
- COT 4210 Discrete Computational Structures

Required Courses: 18 Credit Hours

- CAP 5415 - Computer Vision **3 Credit Hours**
- CAP 6411 - Computer Vision Systems **3 Credit Hours**
- CAP 6412 - Advanced Computer Vision **3 Credit Hours**
- CAP 6419 - 3D Computer Vision **3 Credit Hours**
- CAP 5516 - Medical Image Computing **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**

Elective Courses: 12 Credit Hours

All students are required to complete 12 credit hours of electives that are selected after consultation with the student's adviser.

At least half of the credit hours of students must be at the 6000 level. Approval may be granted for no more than 6 credit hours of electives to be taken outside of Computer Science, and such approval must occur prior to taking any classes outside of the four listed below.

- CAP 5908 Independent Study
- CAP 6908 Independent Study
- COT 6505 - Computational Methods/Analysis I **3 Credit Hours**
- STA 6106 - Statistical Computing I **3 Credit Hours**

Equipment Fee

Students in the Computer Vision MS program pay a \$34 equipment fee each semester that they are enrolled. Part-time students pay \$17 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The College of Engineering and Computer Science strongly encourages prospective applicants to request a free pre-screening (www.cecs.ucf.edu/prescreen) of their qualifications prior to submitting an online application for graduate admission. However, a pre-screening is not required; rather, it is offered as a courtesy to all prospective applicants before they commit to submitting a complete online application and paying an application processing fee.

Admissions decisions are made on the basis of a complete online application only, and not on the basis of any pre-screening. Prospective applicants who are encouraged to apply to their intended graduate program based on the information provided for their pre-screening are not assured of admission or financial assistance when they submit a complete online application. Although it is possible, it is not likely, that prospective applicants who are discouraged from formally applying to a graduate program at the pre-screening stage will be admitted if they elect to submit a complete online application anyway.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
 - *NOTE: The GRE has been removed as an admission requirement for this graduate program for applicants applying Spring 2021 through the Fall 2021 term. This is a temporary measure in response to disruptions caused by the COVID-19 pandemic.*
- Resume
- Letters of recommendation (encouraged but not required)

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

All application materials must be submitted by the appropriate deadline listed below.

Computer Vision MS	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Feb 23	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Contact Info

Graduate Program

Niels da Vitoria Lobo PhD

Associate Professor

niels@cs.ucf.edu

Telephone: 407-823-2873

HEC 252

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

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finaid@ucf.edu

<http://finaid.ucf.edu>

Counselor Education MA

College: Community Innovation and Education	Degree: MA
Department: Counselor Education and School Psychology	
Program Websites: https://ccie.ucf.edu/cesp/counselored/	
Graduate Program Handbook	

Program Description

The College of Community Innovation and Education offers CACREP accredited graduate degrees in Counselor Education (with tracks in Clinical Mental Health Counseling and School Counseling) and Marriage, Couple, and Family Therapy. The Clinical Mental Health Counseling track prepares students for licensure in mental health counseling and to practice in agencies, private practices, and other settings. The School Counseling track is prepares students for certification as a professional school counselor in Pre-K through post-secondary school settings. The Marriage, Couple, and Family Therapy program prepares students for licensure in marriage and family therapy and to practice in agencies, private practices, and other settings.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and in field-based experiences in the community. The UCF Community Counseling and Research Center (CCRC) serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 clients per year.

Because the programs in Counselor Education (Clinical Mental Health Counseling and School Counseling Tracks) and Marriage, Couple, and Family Therapy are CACREP accredited and prepare students for licensure and/or certification as professional counselors, students must be formally admitted to the program in order to take any program area courses. Applicants considering this certificate program should contact their State Licensure Board to verify the courses required. For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/licensure-programs/>. There are three exceptions to this restriction: (1) non-degree seeking students interested in exploring the program prior to admission may take MHS 5005 - Introduction to the Counseling Profession, pending available space after admitted students have been placed in the course; (2) individuals who already possess a master's degree (or above) and are taking courses toward a certificate program (e.g., Play Therapy or Career Counseling) may take the necessary courses upon being accepted into the appropriate certificate program, and; (3) individuals who already possess a master's degree (or above) in counseling or a related field (i.e. psychology or social work) and are taking courses toward Florida licensure in (a) MHC, and thus may take MHS 6020 Mental Health Care Systems, MHS 6070 - Diagnosis and Treatment in Counseling, MHS 6450 - Addictions Counseling, and/or MHS 6470

- Human Sexuality and Relationships, or; (b) MFT, and thus may take MHS 6430 Family Counseling I, MHS 6431 Family Counseling II (MHS 6430 is the pre-requisite), and/or MHS 6440 Couples Counseling – enrollment in any of these courses is pending available space after admitted students have been enrolled.

The Master's of Arts in Counselor Education--School Counseling MA track is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Please note that Marriage, Couple, and Family Therapy MA Program is a separate degree but still part of the Counselor Education program.

Program Tracks

- Counselor Education MA, Clinical Mental Health Counseling Track
- Counselor Education MA, School Counseling Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track (i.e., Clinical Mental Health Counseling or School Counseling) in this program. Applicants for the Marriage, Couple, and Family Therapy program should apply to that program by selecting the program alphabetically from the listing. Tracks may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

W. Bryce Hagedorn PhD
Professor and Program Coordinator
counsel@ucf.edu

Telephone: 407-823-2401
Education 322N

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Counselor Education MA, Clinical Mental Health Counseling Track

College: Community Innovation and Education	Degree: MA
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Department: Counselor Education and School Psychology	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/cesp/counselored/	

Track Description

The CACREP accredited Clinical Mental Health Counseling track in the Counselor Education MA program prepares students for licensure in Clinical Mental Health Counseling and to practice in agencies, private practices, and other settings.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and in field-based experiences in the community. The UCF Community Counseling and Research Center (CCRC) serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 clients per year.

The CACREP accredited Clinical Mental Health Counseling track in the Counselor Education MA program prepares students for licensure in Florida as a Mental Health Counselor in order to practice in agencies, private practices, and other settings. Applicants considering this program should contact their State Licensure Board to verify the courses required. The Counselor Education MA, Clinical Mental Health Counseling track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Counselor-Ed-Clinical-Mental-Health-MA.pdf>.

Curriculum

The Clinical Mental Health Counseling track requires a minimum of 63 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 39 credit hours of specialization (including a 3 credit hour elective), 12 credit hours of professional clinical experiences, and 6 credit hours of electives in either the nonthesis or thesis option.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—45 Credit Hours

Core—6 Credit Hours

- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**

Specialization—39 Credit Hours

- MHS 5005 - Introduction to the Counseling Profession **3 Credit Hours**
- MHS 6020 - Mental Health Care Systems **3 Credit Hours**
- MHS 6070 - Diagnosis and Treatment in Counseling **3 Credit Hours**
- MHS 6220 - Individual Psychoeducational Testing I **3 Credit Hours**
- MHS 6400 - Theories of Counseling and Personality **3 Credit Hours**
- MHS 6401 - Techniques of Counseling **3 Credit Hours**
- MHS 6420 - Foundations of Multicultural Counseling **3 Credit Hours**

- MHS 6450 - Addictions Counseling **3 Credit Hours**
- MHS 6470 - Human Sexuality and Relationships **3 Credit Hours**
- MHS 6500 - Group Procedures and Theories in Counseling **3 Credit Hours**
- MHS 6702 - Ethical and Legal Issues **3 Credit Hours**
- SDS 6347 - Career Development **3 Credit Hours**
- Elective approved by adviser **3 Credit Hours**

Thesis Option—6 Credit Hours

- EGC 6971 - Thesis **6 Credit Hours**

Nonthesis Option—6 Credit Hours

- Two approved electives **6 Credit Hours**

Professional Clinical Experience—12 Credit Hours

The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients. The practicum is conducted on campus in the UCF Community Counseling and Research Center and the internship is conducted at various clinical sites around central Florida.

- MHS 6803 Practicum in Counselor Education **3 credit hours***
- MHS 6803 Practicum in Counselor Education **3 credit hours***
- MHS 6830 Counseling Internship **3 credit hours****
- MHS 6830 Counseling Internship **3 credit hours****

* Prerequisites for MHS 6803 - Practicum in Counselor Education are the following: MHS 5005, MHS 6070, MHS 6400, MHS 6401, MHS 6500, and MHS 6702. A minimum of 27 credit hours are required prior to beginning the practicum.

** The prerequisites for MHS 6830 Counseling Internship include MHS 6420 and earning a "B" or better in all sections of MHS 6803.

- MHS 6803 - Practicum in Counselor Education **3 Credit Hours ***
- SDS 6947 - Internship in Professional School Counseling **1-6 Credit Hours ****
- SDS 6947 - Internship in Professional School Counseling **1-6 Credit Hours ****

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803 and MHS 6830.
- Complete a total of 800 hours of clinical experiences, 200 of which will be in the UCF Community Counseling and Research Center and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are limited to taking a maximum of three (3) courses per semester. However, if

students believe that they can verify a need to take more than three courses, they should consult with their academic adviser for additional guidelines. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum allowed.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of providing hands-on services for a variety of clients and presenting concerns. Such services may include, but are not limited to, individual, couple, family, and group counseling with children, adolescents, and adults. Client concerns range from developmental and relational concerns to more severe pathology. All clinical experiences are performed under the direct supervision of an onsite licensed clinician.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken in the last five years.
- Three letters of recommendation.
- Résumé.
- Goal statement (see the Program website for additional information about the Goal statement).

The Master's of Arts in Counselor Education- Clinical Mental Health Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education Program, if in the judgment of the faculty the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates for March and October will be posted on our Counselor Education website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

Application Deadlines

Clinical Mental Health Counseling	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1	Sep 1	
International Applicants	Jan 15	Jan 15	Jul 1	

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. The Priority date applies solely to applicants for the Doctoral program.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Dalena Dillman-Taylor PhD

counsel@ucf.edu

Telephone: 407-823-2401

ED 322 R

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
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Counselor Education MA, School Counseling Track

College: Community Innovation and Education	Degree: MA
Department: Counselor Education and School Psychology	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/cesp/counselored/	

Track Description

The CACREP Accredited School Counseling track in the Master of Arts in Counselor Education is designed for the student planning to seek certification as a professional school counselor in pre-K through postsecondary school settings.

The CACREP Accredited School Counseling track in the Counselor Education MA program is designed for students who have a bachelor's degree in a discipline other than education and plan to seek certification as a professional school counselor in pre-K through postsecondary school settings.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing annual services to over 1,400 individuals, couples, and families in the central Florida community.

The Master of Arts in Counselor Education-School Counseling track is a state-approved initial teacher/educator preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in Counselor Education-School Counseling should remain in close contact with their advisor to keep informed of any programmatic changes implemented to comply with new state requirements. The Counselor Education MA, School Counseling program has potential ties to professional licensure or certification in the

field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Counselor-Ed-School-Counseling-MA.pdf>.

Curriculum

The CACREP accredited School Counseling track in the Counselor Education MA program prepares students for certification as a professional school counselor. As such, students must be formally admitted to the program in order to take any program area courses. The program requires a minimum of 60 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 30 credit hours of specialization, 9 credit hours of DOE required certification courses, 9 credit hours of professional clinical experiences, and 6 credit hours of electives in either the nonthesis or thesis option.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 45 Credit Hours

Core: 6 Credit Hours

- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**

Specialization: 30 Credit Hours

- MHS 5005 - Introduction to the Counseling Profession **3 Credit Hours**
- MHS 6220 - Individual Psychoeducational Testing I **3 Credit Hours**
- MHS 6400 - Theories of Counseling and Personality **3 Credit Hours**
- MHS 6401 - Techniques of Counseling **3 Credit Hours**
- MHS 6420 - Foundations of Multicultural Counseling **3 Credit Hours**
- MHS 6500 - Group Procedures and Theories in Counseling **3 Credit Hours**
- SDS 6347 - Career Development **3 Credit Hours**
- SDS 6411 - Counseling with Children and Adolescents **3 Credit Hours**
- SDS 6620 - Coordination of Comprehensive Professional School Counseling Programs **3 Credit Hours**
- SPS 6815 - Legal and Ethical Issues in Professional School Counseling **3 Credit Hours**

DOE Certification: 9 Credit Hours

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**

Thesis Option: 6 Credit Hours

- EGC 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

- Two approved electives **6 Credit Hours**

Professional Clinical Experience: 9 Credit Hours

The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients and students. The practicum is conducted either on campus in the UCF Community Counseling and Research Center or at one of the CCRC's partner schools in the community. Internship, which is usually completed in one semester (for 6-credit hours) is conducted at various schools around central Florida. The Internship can be divided into two semesters.

* Prerequisites for MHS 6803 - Practicum in Counselor Education are the following: MHS 5005, MHS 6400, MHS 6401, MHS 6500, and SPS 6815. MHS 6420 and SDS 6411 are also pre or co-requisites for MHS 6803. A minimum of 27 credit hours are required prior to beginning the practicum.

**The prerequisites for SDS 6947 - Internship in Professional School Counseling include SDS 6620 and earning a "B" or better in MHS 6803.

- MHS 6803 - Practicum in Counselor Education **3 Credit Hours** *
- SDS 6947 - Internship in Professional School Counseling **1-6 Credit Hours** **
- SDS 6947 - Internship in Professional School Counseling **1-6 Credit Hours** **

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803 and SDS 6947.
- Complete a total of 700 hours of clinical experiences, 100 of which will be in the UCF Community Counseling and Research Center (or an area school) and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are typically limited to taking a maximum of three (3) courses per semester (with some variability for those in the School Counseling track). However, if students believe that they can verify a need to take more than three courses, they should consult with their advisor for additional guidance. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum allowed.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of facilitating a comprehensive, professional school counseling program in a school setting (e.g., leading classroom guidance lessons, facilitating group counseling, providing individual counseling services). All clinical experiences are performed under the direct supervision of an onsite certified school counselor.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken in the last five years.
- Three letters of recommendation.
- Résumé.
- Goal statement (see the Program website for additional information about the Goal statement).

The Master's of Arts in Counselor Education- School Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education Program, if in the judgment of the faculty the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates for March and October will be posted on our Counselor Education website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

In accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program also requires passing all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT). This provision applies to all applicants to the MA program, School Counseling track.

UPDATE: In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT SUBTEST	GRE SUBTEST	MINIMUM GRE SCORE REQUIRED TO SUBSTITUTE FOR GK SUBTEST
GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151
GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

Application Deadlines

School Counseling	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1	-	-
International Applicants	Jan 15	Jan 15	-	-
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Stacy Van Horn, PhD
Associate Lecturer
counsel@ucf.edu
Telephone: 407-823-2401
ED 322M

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

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 GMAT: RZT-HT-58
 TOEFL: 5233
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Counselor Education MEd

College: Community Innovation and Education	Degree: MEd
Department: Counselor Education and School Psychology	
Program Websites: https://ccie.ucf.edu/cesp/counselored/	
Graduate Program Handbook	

Program Description

The Master of Education in Counselor Education program prepares students to work as professional counselors in pre-K through postsecondary school settings.

The Counselor Education Master of Education (MEd) program was created for students who have a bachelor's degree in education and have completed course work for teaching certification and plan to seek certification in school counseling.

As part of the program's real-world approach to counselor education (in addition to classroom studies) all students complete clinical experiences in the UCF Community Counseling and Research Center and on-site in local schools.

For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/licensure-programs/>.

Program Tracks

- Counselor Education MEd, School Counseling Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

W. Bryce Hagedorn PhD

Associate Professor

counsel@ucf.edu

Telephone: 407-823-2401

Education 322N

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
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Mailing Address

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<http://finaid.ucf.edu>

Counselor Education MEd, School Counseling Track

College: Community Innovation and Education	Degree: MEd
Department: Counselor Education and School Psychology	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/cesp/counselored/	

Track Description

The CACREP accredited School Counseling track in the Counselor Education MEd program prepares students for certification as a professional school counselor in pre-K through postsecondary school settings. The Counselor

Education - School Counseling MEd track is designed for students who have a bachelor's degree in education and/or who are certified educators.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and in field-based experiences in the community. The UCF Community Counseling and Research Center (CCRC) serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 clients per year.

Students enrolled in the CACREP accredited School Counseling track should remain in close contact with their advisor to keep informed of any programmatic changes implemented to comply with new state requirements. The Counselor Education MEd, School Counseling track has potential ties to professional certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Counselor-Ed-School-Counseling-MEd.pdf>.

Curriculum

The School Counseling MEd track requires a minimum of 51 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 30 credit hours of specialization, 9 credit hours of professional clinical or practicum experience, and 6 credit hours of electives in either the nonthesis or thesis option.

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite

Students must have, or be eligible for, the Florida Professional Teaching Certificate.

Required Courses: 36 Credit Hours

Core: 6 Credit Hours

- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**

Specialization: 30 Credit Hours

- MHS 5005 - Introduction to the Counseling Profession **3 Credit Hours**
- MHS 6220 - Individual Psychoeducational Testing I **3 Credit Hours**
- MHS 6400 - Theories of Counseling and Personality **3 Credit Hours**
- MHS 6401 - Techniques of Counseling **3 Credit Hours**
- MHS 6420 - Foundations of Multicultural Counseling **3 Credit Hours**
- MHS 6500 - Group Procedures and Theories in Counseling **3 Credit Hours**
- SDS 6347 - Career Development **3 Credit Hours**
- SDS 6411 - Counseling with Children and Adolescents **3 Credit Hours**
- SDS 6620 - Coordination of Comprehensive Professional School Counseling Programs **3 Credit Hours**
- SPS 6815 - Legal and Ethical Issues in Professional School Counseling **3 Credit Hours**

Thesis Option: 6 Credit Hours

- EGC 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

- Two approved electives **6 Credit Hours**

Professional Clinical Experience: 9 Credit Hours

The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients and students. The practicum is conducted either on campus in the UCF Community Counseling and Research Center or at one of the CCRC's partner schools in the community. Internship, which is usually completed in one semester (for 6-credit hours) is conducted at various schools around central Florida. The Internship can be divided into two semesters.

*Prerequisites for MHS 6803 - Practicum in Counselor Education are the following: MHS 5005, MHS 6400, MHS 6401, MHS 6500, and SPS 6815. MHS 6420 and SDS 6411 are also pre or co-requisites for MHS 6803. A minimum of 27 credit hours are required prior to beginning the practicum.

**The prerequisites for SDS 6947 - Internship in Professional School Counseling include SDS 6620 and earning a "B" or better in MHS 6803.

- MHS 6803 - Practicum in Counselor Education **3 Credit Hours** *
- SDS 6947 - Internship in Professional School Counseling **1-6 Credit Hours** **
- SDS 6947 - Internship in Professional School Counseling **1-6 Credit Hours** **

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803 and SDS 6947.
- Complete a total of 700 hours of clinical experiences, 100 of which will be in the UCF Community Counseling and Research Center (or an area school) and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are limited to taking a maximum of three (3) courses per semester (with some variability for those in the School Counseling track). However, if students believe that they can verify a need to take more than three courses, they should consult with their academic advisor for guidance on the procedure. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum load.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of facilitating a comprehensive, professional school counseling program in a school setting (e.g., leading classroom guidance lessons, facilitating group counseling, providing individual counseling services). All clinical experiences are performed under the direct supervision of an onsite certified school counselor.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken in the last five years.
- MEd applicants must be eligible for certification or hold a current Florida Professional Teaching Certificate prior to the start of their first term. All other applicants should apply to the Counselor Education MA, School Counseling Track
- Three letters of recommendation.
- Résumé.
- Goal statement (see the Program website for additional information about the Goal statement).

Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the Counselor Education - School Counseling MEd track at the discretion of the program director.

The Master's of Education in Counselor Education- School Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education Program, if in the judgment of the faculty, the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates for March and October will be posted on our Counselor Education website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

Application Deadlines

School Counseling	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial

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Contact Info

Graduate Program

Stacy VanHorn PhD

Associate Lecturer

counsel@ucf.edu

Telephone: 407-823-2401

ED 322M

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Criminal Justice MS ►

College: Community Innovation and Education	Degree: MS
Department: Criminal Justice	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/criminaljustice/	
Graduate Program Handbook	

Program Description

The Master of Science in Criminal Justice is designed to meet the needs of students preparing for careers in the field of criminal justice. The curriculum focuses on the traditional issues such as management, administrative and criminal justice theory, as well as basic research methods and descriptive statistics

The Master of Science in Criminal Justice core and elective courses focus on the complex and changing world in which criminal justice systems operate in this country and abroad. This plan of study is designed to equip future criminal justice leaders to be critical consumers of criminal justice research.

The benefits of an advanced graduate degree in criminal justice are self-evident and are being increasingly recognized by employers in central Florida and throughout the United States. Federal, state, and local criminal justice agencies benefit from an informed and innovative workforce that is aware of the complex issues and problems faced by the system regardless of geographic locale. Furthermore, graduates of the program are grounded in the latest theories and learn how these theories affect each individual or organization within the system.

International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before applying.

The Criminal Justice MS program currently offers limited face-to-face courses. The program is offered primarily online. Contact the program for additional information.

Please note: Criminal Justice (MS) may be completed fully online, although not all elective options may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of

enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Tracks

- Criminal Justice MS, Public Administration MPA Dual Degree Track ►

Curriculum

The Master of Science in Criminal Justice requires 36 credit hours, including 21 credit hours of core courses, 6 credit hours of restricted electives, 9 credit hours of general electives, and a final written examination within the Proseminar or capstone course. For students electing to complete a thesis, 6 credit hours of the general elective requirements will be thesis hours.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 21 Credit Hours

Core: 18 Credit Hours

- CCJ 5015 - The Nature of Crime **3 Credit Hours**
- CCJ 5456 - The Administration of Justice **3 Credit Hours**
- CCJ 6704 - Research Methods in Criminal Justice **3 Credit Hours**
- CCJ 6706 - Data Analysis in Criminal Justice I **3 Credit Hours**
- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**
- CCJ 6118 - Criminal Justice Organizations **3 Credit Hours**

Capstone: 3 Credit Hours

The Proseminar in Criminal Justice serves as the capstone experience for the program and the culminating learning experience.

Students must achieve a grade of "B" (3.0) or higher in every course listed under core requirements and in the capstone course (CJE 6718).

- CJE 6718 - Proseminar in Criminal Justice **3 Credit Hours**

Elective Courses: 15 Credit Hours

The combined total of Restricted and Unrestricted 5000 level electives may not exceed 12 credit hours.

Restricted: 6 Credit Hours

Select two from the following courses.

- CJC 5020 - Foundations of Corrections **3 Credit Hours**
- CJE 5021 - Foundations of Law Enforcement **3 Credit Hours**
- CJJ 6020 - The Juvenile Justice System **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**
- CJL 6520 - American Criminal Courts **3 Credit Hours**

Unrestricted: 9 Credit Hours

Students should consult with the Criminal Justice adviser for approval of general electives outside of the Criminal Justice program prior to enrolling. Criminal Justice courses at the 5000 or 6000 level, not used toward core or restricted electives, are pre-approved general electives.

- Electives **9 Credit Hours**

Thesis Option: 6 Credit Hours of the general elective requirements may be thesis hours

All MSCJ students are automatically placed into the nonthesis option. Students electing to complete a thesis should consult the program adviser. The thesis option will consist of 6 hours of thesis credit and a successful defense of the research. Students should select a faculty adviser, form a thesis committee, and complete core/restricted elective requirements before enrolling in thesis hours. A thesis proposal must also be submitted to an approved committee before enrolling thesis hours. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible projects such as advanced research projects, scholarly papers, internships, practicum, and presentations at professional conferences also contribute to the self development of our students. The culminating experience for students is completion of the CJE 6718 - Proseminar in Criminal Justice, which serves as the capstone for the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended with a GPA of at least 3.0 on a 4.0 scale overall or for the last 60 attempted semester hours of credit earned for the degree.
- Statement of career goals, one or two pages indicating how the Criminal Justice MS degree will enhance the applicant's career goals and expectations of the graduate program.
- Résumé (no longer than two pages).
- Two letters of recommendation. Letters should be from professors or professional references who can attest to the applicant's ability to succeed in graduate coursework and his or her work ethic.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students should be aware that admission to any graduate program is granted on a competitive basis. There may be cases where students meeting minimum requirements are denied admission based on such factors as program capacity or academic discretion. Applicants not meeting the minimum 3.0 GPA standards may be considered as candidates for very limited and competitive "provisional" admissions. However, only students with complete applications (final transcript, résumé, letters of recommendation and statement of career goals) will be reviewed under this special admission category. Competitive GRE scores are encouraged for this admission category.

Application Deadlines

Criminal Justice MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Eugene Paoline, III PhD

Professor

Eugene.Paoline@ucf.edu

Telephone: 407-823-2603

HPA 1, RM 321

Elexis Ritz

elexis.ritz@ucf.edu

Telephone: 407-823-6093
HPA 311

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
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Mailing Address

UCF College of Graduate Studies
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Orlando, FL 32816-0112

Institution Codes

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finaid@ucf.edu
<http://finaid.ucf.edu>

Criminal Justice MS, Public Administration MPA Dual Degree Track ►

College: Community Innovation and Education	Degree: MS
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Department: Criminal Justice	Option: Nonthesis
Program Website: https://ccie.ucf.edu/criminaljustice/	
Graduate Program Handbook	

Track Description

The Public Administration MPA - Criminal Justice MS Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Public Administration and the Master of Science in Criminal Justice, concurrently.

Students successfully completing this MPA/MS dual degree program will have the skills and analytical techniques for successful careers in both public administration and criminal justice. After successful completion of the MPA/MS dual degree program, students will receive two diplomas, one for the Public Administration MPA and one for the Criminal Justice MS.

Please note: The Public Administration / Criminal Justice (MS) may be completed fully online, although not all course options may be offered online every semester. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit www.international.ucf.edu. If you have questions, please consult International Affairs and Global Strategies at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The dual degree track (Master of Criminal Justice / Master of Public Administration) consists of 51 credit hours. Each student completes a core of 11 courses (33 credit hours), two research methods and statistics courses (6 credit hours), two electives (6 credit hours), and a capstone experience of two courses (6 credit hours).

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 45 Credit Hours

Core: 33 Credit Hours

- CCJ 5015 - The Nature of Crime **3 Credit Hours**
- CCJ 5456 - The Administration of Justice **3 Credit Hours**
- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**
- CCJ 6118 - Criminal Justice Organizations **3 Credit Hours**
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**

- PAD 6207 - Public Financial Management **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**

Research Methods/Statistics: 6 Credit Hours

Select one Research Methods course and one Statistics course. One from each discipline (one Criminal Justice and one Public Administration). Choose one option:

Option 1

- PAD 6700 - Research Methods in Public Administration **3 Credit Hours** and
- CCJ 6706 - Data Analysis in Criminal Justice I **3 Credit Hours**

OR

Option 2

- CCJ 6704 - Research Methods in Criminal Justice **3 Credit Hours** and
- PAD 6701 - Analytical Techniques for Public Administration **3 Credit Hours**

Capstone: 6 Credit Hours

- PAD 6062 - Advanced Concepts and Applications in Public Administration **3 Credit Hours**
- CJE 6718 - Proseminar in Criminal Justice **3 Credit Hours**

Electives: 6 Credit Hours

Select two of the following courses:

- CJC 5020 - Foundations of Corrections **3 Credit Hours**
- CJE 5021 - Foundations of Law Enforcement **3 Credit Hours**
- CJJ 6020 - The Juvenile Justice System **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**
- CJL 6520 - American Criminal Courts **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B" or higher in every CCJ/CJE course and a grade of "B-" or higher in every PAD course in the core courses, including the Capstone courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects, such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of students. The capstone courses, PAD 6062 and CJE 6718, provide the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended with a GPA of at least 3.0 on a 4.0 scale overall or for the last 60 attempted semester hours of credit earned for the degree.
- Three letters of recommendation specifically for the Criminal Justice MS/MPA program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double spaced (500-800 words) and should address the following:
 - Personal background and career aspirations in public service.
 - Reason for pursuing graduate study in criminal justice and public administration, including future career goals and plans.
 - Specific areas of public administration and criminal justice that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All international students must meet university minimum TOEFL score requirements regardless of language in which the undergraduate program was completed.

Admission to this degree is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Application Deadlines

Public Administration MPA Dual Degree	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Eugene Paoline, III PhD

Professor

Eugene.Paoline@ucf.edu

Telephone: 407-823-2603

HPA 1, RM 321

Elaxis Ritz

elaxis.ritz@ucf.edu

Telephone: 407-823-6093

HPA 311

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Curriculum and Instruction MEd

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	
Graduate Program Handbook	

Program Description

******This program has temporarily suspended admissions effective Summer 2021******

The Master of Education (MEd) program in Curriculum and Instruction is designed for professionally certified and experienced educators who want to extend their influence beyond the walls of the classroom and improve their knowledge and skills in the area of leadership. Students also engage in the development of expertise in leading other educators in curriculum and instructional improvement across subject areas and grade levels.

This degree does not prepare students for initial, administrative, or supervisory certification.

The Curriculum and Instruction program addresses teacher empowerment and leadership in the expanded roles and responsibilities of educators in schools, including data-driven assessment for school improvement, professional learning communities, applying research to practice, improving instruction and student learning outcomes, and collaboration with families and communities.

During the admission process, students will select a track in the following content areas that do not require specific certification beyond the professional teaching certificate: Curriculum Leadership, Educational Technology*, Gifted Education*, Global, International and Comparative Education*, Intervention Specialist, and Supporting High Needs Populations.

This degree does not prepare students for initial, administrative, or supervisory certification.

***These program areas also include a certificate, which must be applied for separately.**

Program Tracks

- Curriculum and Instruction MEd, Curriculum Leadership Track
- Curriculum and Instruction MEd, Educational Technology Track
- Curriculum and Instruction MEd, Gifted Education Track
- Curriculum and Instruction MEd, Global, International and Comparative Education Track
- Curriculum and Instruction MEd, Intervention Specialist Track
- Curriculum and Instruction MEd, Supporting High Needs Populations Track

Curriculum

The Master of Education in Curriculum and Instruction program requires a minimum of 30 credit hours beyond the bachelor's degree; minimum credit hour requirements vary by track. Students from all tracks must complete the required 15-18 credit hours of core courses. The Master of Education in Curriculum and Instruction requires, depending on the track, that all students complete a Thesis (6 credit hours) or Capstone Research Project (3 credit hours). The Capstone is a course-based action research study (i.e., application and analysis of the effectiveness of research-based best practices in the classroom). Additional course requirements vary by track.

Total Credit Hours Required: 30-39 Credit Hours Minimum beyond the Bachelor's Degree

This section describes the elements of the curriculum that are in common for all of the tracks.

Required Courses

Core: 15-18 Credit Hours

All students must take the Curriculum and Instruction core, regardless of their chosen specialization.

*Should be taken in first semester of program, if possible.

**Prerequisites for the Thesis Option or Capstone course.

Students complete a Thesis (IDS 6971) or a Capstone Research Project (EDF 6635) at the end of the program. Students must complete an Intent to Graduate Form the semester prior to enrolling in EDF 6635 or IDS 6971.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours** *
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours** **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours** **
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**
OR
- **IDS 6971 – Thesis Option 6 Credit Hours (Gifted and Global Track Option)**

Independent Learning

The MEd requires a thesis or completion of the Capstone: Action Research Project.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Application Deadlines

Curriculum and Instruction MEd	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Graduate Affairs Office
 cciegrad@ucf.edu
 Telephone: 407-823-5369
 ED 115

Graduate Admissions

TBA
 gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Appointment Line: 407-823-5285
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finaid@ucf.edu
<http://finaid.ucf.edu>

Curriculum and Instruction MEd, Art Education Track

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	

Track Description

This program has temporarily suspended admissions effective Summer 2021.

You can however, get a MAT in Art Education: please follow the link here.

The Art Education track in the Curriculum and Instruction MEd program is designed to meet the expanding needs of the art teacher.

The MEd degree is designed to meet the expanding needs of the art teacher. Students in the program examine contemporary problems in art education, review recent curriculum developments, study innovations in art education, explore interdisciplinary concepts, and become involved in research problems specific to the art teacher. This degree requires previous certification in art.

Curriculum

The Art Education track in the Curriculum and Instruction MEd program requires 15 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 21 credit hours of specialization courses.

Total Credit Hours Required: 36-39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 36-39 Credit Hours

Core: 15 Credit Hours

* Must be taken in first semester in the program.

**Prerequisites to the Capstone.

Student completes either a Capstone Research Project or Thesis at the end of the program. EDF 6635 is offered in spring semester only.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours** *
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours** **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours** **
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours** or
- IDS 6971 Thesis **6 Credit Hours**

Specialization: 21 Credit Hours

Students take the following courses:

- ARE 6450 - K-12 Instructional Materials **3 Credit Hours**
- ARE 6666 - Arts Advocacy **3 Credit Hours**
- ARE 6748 - Advanced Research Seminar in Art Education **3 Credit Hours**
- ARE 6747 - Assessment Seminar in Art Education **3 Credit Hours**
- ARE 6905 - Research Trends in Art Education **3 Credit Hours**

Choose two of the following elective courses with adviser approval:

- ARE 5251 - Art for Exceptionalities **3 Credit Hours**
- ARE 5454 - Studio Experiences in Art Education **3 Credit Hours**

- ARE 6195 - Teaching Art Appreciation with Interdisciplinary Strategies **3 Credit Hours**
- ARE 6748 - Advanced Research Seminar in Art Education **3 Credit Hours**
- ARE 6905 - Research Trends in Art Education **3 Credit Hours**
- ART studio courses approved by adviser

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Debra McGann EdD
 Lecturer
 debra.mcgann@ucf.edu
 ED 122C

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Curriculum and Instruction MEd, Curriculum Leadership Track

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	Option: Nonthesis

Program Website: <https://ccie.ucf.edu/lser/curriculum-and-instruction/>

Track Description

******This program has temporarily suspended admissions effective Summer 2021******

The Curriculum Leadership track in the Curriculum and Instruction MEd program is designed to meet the advanced knowledge and skill needs of educators in curriculum planning and management.

Curriculum

The Curriculum and Leadership track in the Master of Education (MEd) Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33 Credit Hours

Core: 15 Credit Hours

*Should be taken in first semester of program, if possible.

**Prerequisites for the Capstone.

Students complete a Capstone Research Project (EDF 6635) at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours ***
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours ****
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours ****
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**

Specialization: 18 Credit Hours

Students take the following courses:

- ESE 6217 - Curriculum Design **3 Credit Hours**
- ESE 6416 - Curriculum Evaluation **3 Credit Hours**
- EGI 6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners **3 Credit Hours**
- EDF 6259 - Learning Theories Applied to Leadership in Teaching Practice **3 Credit Hours**

Choose two of the following elective courses with adviser approval:

- EDF 6517 - Perspectives on Education **3 Credit Hours**
- EME 5050 - Fundamentals of Technology for Educators **3 Credit Hours**

- EME 6602 - Integration of Technology into the Learning Environments **3 Credit Hours**
- EDF 6886 - Multicultural Education **3 Credit Hours**
- Other electives as approved by adviser and program coordinator (up to 6 credit hours)

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Curriculum Leadership	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

David Boote PhD

David.Boote@ucf.edu

Telephone: 407-823-4160

ED 222P

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

Curriculum and Instruction MEd, Educational Technology Track

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	Option: Nonthesis
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	

Track Description

*****This program has temporarily suspended admissions effective Summer 2021*****

The Educational Technology track in the Curriculum and Instruction MEd program is designed for certified and experienced educators who want to increase their technological skills and become highly skilled at successfully integrating technology into the curriculum as well as develop leadership skills necessary to become site-based technology coordinators in K-12 schools, colleges and universities.

Curriculum

The Educational Technology track in the Master of Education (MEd) in Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 15 credit hours of specialization courses.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 30 Credit Hours

Core: 15 Credit Hours

* Should be taken in first semester in the program, if possible.

** Prerequisites to the Capstone.

Students complete a Capstone Action Research Project (EDF 6635) at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours** *
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours** **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours** **
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**

Specialization—15 Credit Hours

Students take the following courses:

- EME 6405 - Adapting and Integrating Innovative Technologies in Education **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6602 - Integration of Technology into the Learning Environments **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**

Choose one of the following courses:

- EME 6055 - Current Trends in Instructional Technology **3 Credit Hours**
- EME 6062 - Research in Instructional Technology **3 Credit Hours**
- EME 6613 - Instructional System Design **3 Credit Hours**
- EME 6417 - Interactive Online and Virtual Teaching Environments **3 Credit Hours**
- EME 6458 - Virtual Teaching and the Digital Educator **3 Credit Hours**
- EME 6457 - Distance Education: Technology Process Product **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Educational Technology	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Glenda Gunter PhD
Associate Professor
glenda.gunter@ucf.edu
ED 322P

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Curriculum and Instruction MEd, Gifted Education Track

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	

Track Description

*****This program has temporarily suspended admissions effective Summer 2021*****

The Gifted Education track in the Curriculum and Instruction MEd program is designed to meet the advanced knowledge and skill needs of educators who teach diverse gifted and talented students.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Curriculum-Instruction-Gifted-Ed-MEd.pdf>.

Curriculum

The Gifted Education track in the Master of Education (MEd) in Curriculum and Instruction program requires 15-18 credit hours of core courses, including completion of a capstone research project or the thesis option. In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33-36 Credit Hours

Core: 15-18 Credit Hours

* Should be taken in first semester in the program, if possible.

** Prerequisites for enrolling in the Thesis Option (IDS 6971) or Capstone (EDF 6635). Students complete a Thesis Option (6 credit hours) or a Capstone Research Project (3 credit hours) at the end of the program. Student must complete an Intent to Graduate form the semester prior to enrolling in IDS 6971 or EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours** *
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours** **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours** **
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**
OR
- **IDS 6971 - Thesis Option 6 Credit Hours**

Specialization: 18 Credit Hours

- EGI 6051 - Understanding the Gifted/Talented Student **3 Credit Hours**
- EGI 6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners **3 Credit Hours**
- EGI 6246 - Education of Special Populations of Gifted Students **3 Credit Hours**
- EGI 6247 - Developing Advanced Programs and Services: Acceleration and Enrichment for Academically and Intellectually Gifted Learners **3 Credit Hours**
- EGI 6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals **3 Credit Hours**
- EGI 6305 - Theory and Development of Creativity **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Gifted Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Gillian Eriksson PhD

Gillian.Eriksson@ucf.edu
 Telephone: 407-823-6493
 Education 223M

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Curriculum and Instruction MEd, Global, International and Comparative Education Track

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	

Track Description

*****This program has temporarily suspended admissions effective Summer 2021*****

The Global, International and Comparative Education track in the Curriculum and Instruction MEd is designed for educators who wish to expand their knowledge and skill in international and cross-cultural education setting.

Curriculum

The Global, International and Comparative Education track in the Master of Education (MEd) in Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 21 credit hours of specialization courses.

Total Credit Hours Required: 36-39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 36-39 Credit Hours

Core: 15-18 Credit Hours

* Should be taken in first semester in the program, if possible.

** Prerequisites for enrolling in Thesis Option (IDS 6971) or the Capstone (EDF 6635). Students complete a Thesis Option (IDS 6971) or a Capstone Research Project (EDF 6635) at the end of the program.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours** *
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours** **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours** **
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**
- OR
- **IDS 6971 - Thesis Option 6 Credit Hours**

Specialization: 21 Credit Hours

- EDF 6809 - Introduction to Comparative and International Education **3 Credit Hours**
- SSE 5391 - Global Education: Theory and Practice **3 Credit Hours**
- EDF 6855 - Equitable Educational Opportunity and Life Chances: A Cross-National Analysis **3 Credit Hours**
- EDS 6365 - Education and National Development **3 Credit Hours**
- EDF 6886 - Multicultural Education **3 Credit Hours**

Select two of the following courses:

- EDG 6775 - Exploring Global Educational Issues in International Contexts **1-3 Credit Hours**
- EEC 6606 - Global Issues in Early Childhood **3 Credit Hours**
- Other graduate courses with the program director's approval

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Global, International and Comparative Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Karen Biraimah PhD
 karen.biraimah@ucf.edu
 Telephone: 407-823-2428
 ED 320H

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Curriculum and Instruction MEd, Intervention Specialist Track

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	Option: Nonthesis
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	

Track Description

*****This program has temporarily suspended admissions effective Summer 2021*****

The Intervention Specialist Track in the Curriculum and Instruction MEd program provides advanced coursework for educational leaders to use school-based and classroom instructional data to meet the instructional and intervention needs of all students, including at-risk and struggling students, beyond typical, initial classroom instruction within a multi-tiered system of supports.

In addition, this track will provide an advanced multi-disciplinary theoretical approach and applied knowledge base to experienced educators. Coursework focuses on knowledge, skills and competencies for working with students within an intervention framework.

The Intervention Specialist Track is multi-disciplinary and includes coursework in exceptional student education, school psychology, reading education, and math education. The graduate courses provide an opportunity for students to complete the Intervention Specialist track, as well as a graduate certificate, with separate applications required to each program.

Curriculum

The Intervention Specialist track in the Master in Education Teacher Leadership program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33 Credit Hours

Core: 15 Credit Hours

* Should be taken in first semester in the program, if possible.

**Prerequisites to the Thesis Option or Capstone.

Students complete a Capstone Research Project (EDF 6635) at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours**
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours**
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**

Specialization: 18 Credit Hours

- EEX 6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education **3 Credit Hours**
- MAE 6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours**
- SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making **3 Credit Hours**

- EGI 6246 - Education of Special Populations of Gifted Students **3 Credit Hours**
- One elective as approved by the program adviser **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- One letter of recommendation.
- Goal statement.
- Resume/vita reflecting relevant experience.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Intervention Specialist	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mary Little PhD

Professor

mary.little@ucf.edu

Telephone: 407-823-3275

ED 315J

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Curriculum and Instruction MEd, Supporting High Needs Populations Track

College: Community Innovation and Education	Degree: MEd
Department: Learning Sciences and Educational Research	Option: Nonthesis
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	

Track Description

*****This program has temporarily suspended admissions effective Summer 2021*****

The Supporting High Needs Populations track in the Curriculum and Instruction MEd program is designed to meet the advanced knowledge and skill needs of educators who work in urban settings.

Curriculum

The Supporting High Needs Populations track in the Master of Education Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project. In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33-36 Credit Hours

Core: 15 Credit Hours

*Should be taken in first semester of program, if possible.

**Prerequisites for the Capstone.

Students complete a Capstone Research Project (EDF 6635) at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership **3 Credit Hours** *
- EDG 6223 - Curriculum Theory, Organization, and Policy **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours** **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours** **

- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**

Specialization: 18 Credit Hours

Students take the following courses:

- EDF 6725 - Critical Issues in the Study of High Needs Populations **3 Credit Hours**
- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**

Choose four of the following elective courses with adviser approval:

- CCJ 6485 - Issues in Justice Policy **3 Credit Hours**
- ECW 6067 - History of Career Education in the United States **3 Credit Hours**
- EDF 6206 - Challenges of Classroom Diversity **3 Credit Hours**
- EDF 6855 - Equitable Educational Opportunity and Life Chances: A Cross-National Analysis **3 Credit Hours**
- EDF 6886 - Multicultural Education **3 Credit Hours**
- EDG 6636 - Impact of Social Contexts on Teaching and Learning **3 Credit Hours**
- EEX 6342 - Seminar-Critical Issues in Special Education **3 Credit Hours**
- EGI 6246 - Education of Special Populations of Gifted Students **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- SPS 5605 - Building and Improving Relationship and Emotional Intelligence **3 Credit Hours**
- SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

One official transcript (in a sealed envelope) from each college/university attended.

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Supporting High Needs Populations	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

Martha Lue-Stewart PhD

Professor

martha.stewart@ucf.edu

Telephone: 407-823-2036

ED 315S

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
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Graduate Financial Aid

UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Data Analytics MS

College: Engineering and Computer Science	Degree: MS
Department: Computer Science	Option: Thesis, Nonthesis
Program Websites: http://www.ce.ucf.edu/credit/data/	

Program Description

The Master of Science in Data Analytics program provides students with the ability to develop algorithms and computer programs for discovery of information from large amounts of data. This includes the architecture of programs, as well as technical details of algorithm development. Students are expected to be able to write and maintain novel computer programs that make efficient use of cutting-edge computer technology.

Students in this nonthesis program receive a broad background in the areas of parallel programming, machine learning, data mining, and network science while specializing in particular areas of data analytics practice. Students successfully completing this program will have exhibited breadth as well as depth of capability involving discovery of knowledge from "big data."

Curriculum

The MS in Data Analytics requires 30 credit hours and includes a project, which is a culminating experience. Students must receive a grade of "B" or higher in all courses.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

An undergraduate degree in computer science, statistics, computer engineering or information technology is desirable but not required. Applicants without a strong undergraduate background in computer science or statistics must demonstrate an understanding of the material covered in the following upper division undergraduate courses:

- COP 3330 Object-Oriented Programming
- COP 3503C Computer Science II
- COP 4710 Database Systems
- STA 2023 Statistical Methods I
- Programming experience or STA 4164 Statistical Methods III

Required Courses: 24 Credit Hours

All students are required to take the following courses, for a total of 24 credit hours.

- CAP 5610 - Machine Learning **3 Credit Hours**
- CNT 5805 - Network Science **3 Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems **3 Credit Hours**
- COP 6526 - Parallel and Cloud Computation **3 Credit Hours**
- STA 5206 - Statistical Analysis **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 6704 - Data Mining Methodology II **3 Credit Hours**
- CAP 6942 - Project in Data Analytics **3 Credit Hours**

Restricted Elective Courses: 6 Credit Hours

All students are required to complete 6 credit hours of approved electives that are selected after consultation with the student's adviser.

- CAP 6307 - Text Mining I **3 Credit Hours**
- CAP 6315 - Social Media and Network Analysis **3 Credit Hours**
- CAP 6318 - Computational Analysis of Social Complexity **3 Credit Hours**
- CAP 6545 - Machine Learning Methods for Biomedical Data **3 Credit Hours**
- CAP 6737 - Interactive Data Visualization **3 Credit Hours**
- STA 6714 - Data Preparation **3 Credit Hours**

Independent Learning

The Independent Learning Requirement is met by successful completion of a capstone project in CAP 6942 - Project in Data Analytics.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Resume/CV
- Letters of recommendation (encouraged but not required)

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

An undergraduate degree in Computer Science, Statistics, Information Technology, or Computer Engineering is desirable but not required. Applicants without a strong undergraduate background in Computer Science and Statistics must demonstrate an understanding of the material covered in upper-division undergraduate courses listed under the Articulation Section of the Curriculum Information. Applicants may choose to demonstrate their knowledge of these courses by taking these courses as non-degree seeking and scoring "B" or better in all of them.

Application Deadlines

Data Analytics MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Ivan Garibay PhD
 igaribay@ucf.edu
 Telephone: 407-882-1163
 UTWR

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Digital Forensics MS ►

College: Engineering and Computer Science	Degree: MS
Department: Computer Science	Option: Thesis, Nonthesis
Program Websites: http://msdf.ucf.edu/	
Graduate Program Handbook	

Program Description

The Digital Forensics master's degree is a collaborative effort between various UCF academic departments (Computer Science, Forensic Science of Chemistry, Criminal Justice, and Legal Studies) and the National Center for Forensic Science (NCFS), which is based in the UCF College of Sciences as a forensic science research center and is housed in Orlando's Research Park, adjacent to UCF.

The mission of the MSDF degree program is to provide a quality graduate education in science and practices of digital forensics, to prepare the students for digital forensics jobs, and to prepare the students for a lifetime of learning. The objectives of the program include the following:

- To give MSDF graduates the knowledge and skills necessary to participate as an effective team member or team leader in digital evidence investigations
- To prepare MSDF graduates for professional careers in digital forensics examination, forensic tool development, tool verification and validation, security and forensics administration
- To prepare MSDF graduates with the knowledge and skills to pursue advanced studies and research in computer technology or computer crime-related disciplines
- To equip MSDF graduates with the communication skills, both oral and written, to become an effective problem solver as well as an effective communicator as an expert forensic examiner and expert witness

Please note: Digital Forensics (MS) may be completed fully online. Most courses are either online courses or have both in-campus and online course sessions. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. It could be difficult to satisfy these requirement since many courses in this program only have online format. Please contact Program Coordinator to discuss possible admission issue.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Digital Forensics MS degree is comprised of 30 hours of study beyond the bachelor's degree with required, intensive specialization in topics related to digital forensics. The degree program prepares students, including working professionals, who will pursue the degree on a part-time basis to gain the knowledge and skills required to work as an examiner in the field. The program may also be taken by those who have an interest in scientific applications and research in the field, and who would like to continue to a doctoral degree program or law school after completion.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The program offers both a thesis option (6 credit hours) or an opportunity to complete two additional courses (6 credit hours) selected from the Restricted Electives. At least one-half of the credit hours must be at the 6000 level.

Articulation

Undergraduate articulation courses may be required for students with BS and/or MS degrees in fields other than a computer-related field. If you are not in STEM related BS program, you need to show either you have taken some basic CS/IT courses, or have working experience in CS or IT or digital forensics field. If you want to take some prerequisite courses, you can take two to three of the following courses in UCF or equivalent courses in other places:

1. Basic CS knowledge: COP 3502: Computer Science I
2. Basic networking knowledge: CNT 3004 Computer Network Concepts, or CNT 4703C Design and Implementation of Computer Communication Networks, or CNT 4704 Analysis of Computer Communication Networks
3. Basic Computer architecture: CDA 3103: Computer Logic and Organization
4. Programming course, such as: COP 3223C Introduction to Programming with C, or COP 3330 Intro to OO Programming with Java

Courses taken to correct deficiencies cannot be used to satisfy minimum degree requirements.

Required Courses: 12 Credit Hours

- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CHS 5504 - Topics in Forensic Science **3 Credit Hours**
- CIS 6207 - The Practice of Digital Forensics **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**

Restricted Elective Courses: 12 Credit Hours

Computing and Technology

Select two courses.

- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CNT 6519 - Wireless Security and Forensics **3 Credit Hours**
- CAP 6135 - Malware and Software Vulnerability Analysis **3 Credit Hours**
- CIS 6386 - Operating Systems and File System Forensics **3 Credit Hours**
- CIS 6395 - Incident Response Technologies **3 Credit Hours**
- CNT 5410L - Cyber Operations Lab **3 Credit Hours**
- IDC 5602 - Cybersecurity: A Multidisciplinary Approach **3 Credit Hours**
- IDC 6600 - Emerging Cyber Issues **3 Credit Hours**
- IDC 6601 - Behavioral Aspects of Cybersecurity **3 Credit Hours**

Criminal Justice

Select one course.

- CCJ 5015 - The Nature of Crime **3 Credit Hours**
- CCJ 5456 - The Administration of Justice **3 Credit Hours**
- CCJ 6074 - Investigative and Intelligence Analysis: Theory and Methods **3 Credit Hours**
- CCJ 6704 - Research Methods in Criminal Justice **3 Credit Hours**
- CCJ 6706 - Data Analysis in Criminal Justice I **3 Credit Hours**
- CJE 6688 - Cyber Crime and Criminal Justice **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**

Legal Studies and Electronic Discovery

Select one course.

- CHS 5596 - The Forensic Expert in the Courtroom **3 Credit Hours**
- CHS 5518 - The Forensic Collection and Examination of Digital Evidence **3 Credit Hours**
- PLA 5587 - Current Issues in Cyberlaw **3 Credit Hours**
- CIS 6206 - Electronic Discovery for Digital Forensics Professionals **3 Credit Hours**

Thesis Option: 6 Credit Hours

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- CAP 6971 Thesis **6 Credit Hours** (6 Credit Hours, take 3 credit hours per semester for two consecutive semesters)

Nonthesis Option: 6 Credit Hours

Students not interested in a thesis can instead take one elective course and the "CDA 6946: Internship" course, or take two electives. The electives can be any courses from the list of Restricted Electives above, or the following electives.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or completing the capstone course CIS 6207.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Statement of educational, research, and professional career objectives.
- Résumé.
- One letter of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The GRE is not required for admission into this program.

Application Deadlines

Digital Forensics MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1

International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Cliff Zou PhD

Associate Professor

CZou@cs.ucf.edu

Telephone: 407-823-5015

HEC 243

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

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Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Digital Media MA

College: Sciences	Degree: MA
Department: Nicholson School of Communication and Media	Option: Thesis, Non-Thesis
Program Websites: https://communication.ucf.edu/degree/digital-media-ma/	
Graduate Program Handbook	

Description

The MA program in Digital Media engages students in theoretical frameworks, methods, and critical media practice related to computational, interactive media. Through rigorous creative and research projects, the MA prepares students for continued study in a PhD program or employment within the industry. Working closely with an innovative faculty and technology partnerships in downtown Orlando, students will employ emerging technologies to communicate interactive narratives and experiences while also producing cutting-edge research in interactive media.

Curriculum

The Digital Media MA combines theory and practice to train the next generation of interactive media scholars and practitioners. Part of the first wave of UCF's state-of-the-art downtown campus, students in this program have unique opportunities to participate in socially impactful research and artistic production. In the first year, students gain an introduction to aesthetic, theoretical, programming, and design approaches to interactive media, while gaining valuable

foundations in research and storytelling. In the second year, students either pursue a thesis or studio production path, while learning about contemporary topics and emerging Artificial Intelligence (AI) research and design. Throughout the program, students are encouraged to create portfolio-ready pieces and/or present their work at conferences, thus preparing them for future professional, artistic, and scholarly success at the forefront of interactive media.

The program focuses on the following areas:

- **Theory and Practice:** The program trains students to pair theory and practice regardless of the path they choose through the program. Students will learn to develop theoretically sophisticated creative works and to pair creativity with research. This is accomplished by providing students with a solid foundation in aesthetic, design, programming, and theoretical approaches.
- **Narrative and Experience Design:** The program also emphasizes interactive storytelling and an understanding of how to design compelling experiences specifically for interactive media. This is accomplished through coursework on these subjects, and the time allotted in the program's plan of study for students to develop in-depth creative and research projects that put the concepts learned in coursework into play.
- **Social Impact:** The MA in Digital Media also takes advantage of the creative, research, and business opportunities available through the program's downtown Orlando location to provide students with a range of real-world, socially impactful research and creative experiences. Course projects and students' own creative and research work benefit from the social, cultural, and economic context of a thriving downtown sector.
- **Professional and Scholarly Outcomes:** The MA program offers two equally in-depth and rigorous tracks—the Thesis or Studio Production paths. The required coursework provides the foundational skills and knowledge needed for students to create an exhibition or publication-ready projects.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 24 Credit Hours

- DIG 5487 - Media Aesthetics **3 Credit Hours**
- DIG 5508 - Programming for Digital Media **3 Credit Hours**
- DIG 5831 - Computational Media **3 Credit Hours**
- DIG 6136 - Design for Interactive Media **3 Credit Hours**
- DIG 6551 - Theory and Practice of Interactive Storytelling **3 Credit Hours**
- DIG 6647 - History and Theory of Dynamic Media **3 Credit Hours**
- DIG 6817 - Contemporary Topics in Interactive Media **3 Credit Hours**
- DIG 6825 - Research Methods for Interactive Media **3 Credit Hours**

Thesis Option: 6 Credit Hours of Thesis and 6 Credit Hours of Electives

Students choosing the Thesis option will take all required courses, along with two electives (one in Fall and one in Spring of their second year in a typical program of study). The electives may come from any COM, DIG, or FIL prefix or other as approved by the graduate coordinator. Many graduate-level courses in the College of Arts and Humanities can be used as electives, based on an adviser-approved plan of study. These courses must be selected to ensure that at least one-half of the courses in the student's plan of study are taken at the 6000 level. In addition, students will take 6 hours of DIG 6971: Thesis credit (3 in Fall and 3 in Spring in a typical program of study).

Each candidate for the Master of Arts submits a thesis prospectus and preliminary bibliography on a topic selected in consultation with the adviser. The formal thesis is initiated by the preparation of a proposal that meets both departmental and university requirements for the thesis. Prior to enrollment into thesis credit hours, the adviser, in consultation with the student, designates a Thesis Committee to be further approved by the College Graduate of Studies. This committee is chaired by the adviser and includes two or more additional faculty members from the Nicholson School of Communication and Media.

The members of the student's thesis committee judge the proposal as the preliminary step to beginning the thesis. This committee must approve the Thesis Proposal before academic credit can accrue.

The thesis is a formal written document. The introduction cites similar, related, and antecedent work. The body explains the purposes of the project, the method of its production, and any evaluation that was performed. The conclusion includes plans for future work. The thesis also includes an archival copy of the resulting creative product. Both the thesis and the creative product must be delivered in digital form, acceptable by the UCF library according to its standards for digital dissertations and theses.

- DIG 6971 - Thesis **6 Credit Hours**
- Electives **6 Credit Hours**

Thesis Defense

In addition to a written thesis, the final step in completing the thesis requirement is an oral defense before the thesis committee. Candidates must present their creative or research work and explain its creation in an oral defense. These presentations are made to the student's committee in a public meeting that other faculty and students may attend.

Studio Production, Non-Thesis Option: 12 Credit Hours

Students selecting the Studio Production option complete 6 required credit hours: DIG 6571: Studio 1 (3 credit hours) and DIG 6909: Research Report (3 credit hours), and an additional 6 credit hours of electives.

The electives may come from any COM, DIG, or FIL prefix or other as approved by the graduate coordinator. Many graduate-level courses in the College of Arts and Humanities can be used as electives, based on an adviser-approved plan of study. These courses must be selected to ensure that at least one-half of the courses in the student's plan of study are taken at the 6000 level.

- DIG 6524 - Studio 1 **3 Credit Hours**
- DIG 6909 Research Report (3 Credit Hours)
Electives **6 Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A written statement (1 - 2 pages) describing the student's personal goals, objectives, and research interests in seeking the degree.
- Three letters of recommendation from former professors or employers who can address applicant's ability to undertake graduate-level courses.
- For students intending to pursue the studio track, a link to a web portfolio of 2 - 5 substantial creative and/or technical works. For students intending to pursue the thesis track, writing sample(s) totaling 10 - 15 pages.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Desirable background skills for this degree include familiarity with computer coding and/or digital design, but these are not required as coursework addresses these areas.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool.

Application Deadlines

Digital Media	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
<p>*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.</p> <p>Applications will be reviewed at the end of each month, with the last review after the July 1st deadline.</p>				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

NSCM Graduate Student Services Coordinator

nicholsongrad@ucf.edu

Telephone: 407-823-5595

Full-time Location: CMB 203, UCF Downtown

Part-time Location: NSCM 238, UCF Main Campus

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Early Childhood Development and Education MS

College: Community Innovation and Education	Degree: MS
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/early-childhood-education/	
Graduate Program Handbook	

Program Description

The Master of Science program in Early Childhood Development and Education (ECDE) is designed to meet the needs of professionals who want to work with young children and their families. The ECDE program delivers relevant, rigorous course work and related academic experiences.

The program is designed for candidates with undergraduate degrees in a wide range of areas either related to early childhood development and education, such as child development, psychology, communication disorders, sociology, nursing, theatre, music or other degrees. The program of study includes advanced professional development in early child development and education for careers with direct and indirect services for young children and families. Direct early education services to young children and families can include homes, schools, and other community settings, such as child care and Head Start. Indirect services can include: child assessment, program evaluation, child care resource and referral, early learning coalitions, community college instruction, and child advocacy. Graduates of this program are encouraged to serve as a bridge among schools and community agencies and to nurture leadership skills in these areas.

In addition to fostering the professional development of previously certified early childhood teachers, this program will also serve as a connection between schools, families, and community agencies and will provide the educational experiences to nurture educational leaders who will work within and across these areas.

Curriculum

The Early Childhood Development and Education MS program requires a minimum of 36 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 18 credit hours of specialization courses, 6 credit hours of electives, and 6 credit hours of a capstone experience in the form of a thesis or nonthesis/practicum or additional graduate course credit options.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Students should initially and periodically meet with an academic adviser to plan their program of electives in relation to their desired career goals, develop a program of study and timeline for their course work completion, and plan for the capstone culminating experience.

The MS does not lead to initial teacher preparation through the state-approved program route. Students interested in certification may contact the Florida Bureau of Teacher Certification Florida Department of Education directly at www.fldoe.org/edcert/.

Required Courses: 24 Credit Hours

Core: 6 Credit Hours

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**

Specialization: 18 Credit Hours

- EEC 5205 - Programs and Trends in Early Childhood Education **3 Credit Hours**
- EEC 6269 - Play Development, Intervention, and Assessment **3 Credit Hours**
- EEC 6405 - Home-School-Community Interaction in Early Childhood Education **3 Credit Hours**
- EEC 6406 - Guiding and Facilitating Social Competence **3 Credit Hours**

- EEC 6606 - Global Issues in Early Childhood **3 Credit Hours**
- EEX 6222 - Observation and Assessment of Young Children **3 Credit Hours**

Elective Courses: 6 Credit Hours

- EEC 6216 - Communicative Arts in Early Childhood Education **3 Credit Hours**
- EEX 6017 - Typical and Atypical Applied Child Development **3 Credit Hours**
- EEX 5702 - Planning Curriculum for Pre-Kindergarten Children with Disabilities **3 Credit Hours**
- EEX 5750 - Communication with Parents and Agencies **3 Credit Hours**
- MHS 6403 - Group and Family Play Therapy **3 Credit Hours**
- MHS 6421 - Foundations of Play Therapy and Expressive Arts **3 Credit Hours**
- SOW 6726 - Social Work Practice with Children from Birth to Age Five and their Families **3 Credit Hours**
- Other courses of interest with consent of faculty

Thesis Option: 6 Credit Hours

- EEC 6971 Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

- EEC 6947 - Practicum in Child, Family, and Community Sciences **6 Credit Hours** or
- 6 Credit Hours of approved electives with a written comprehensive examination

Independent Learning

A thesis, practicum, or a written comprehensive examination is required as the culminating experience for the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Three letters of recommendation from academic sources.
- Professional resumé.
- Essay detailing career goals.
- An interview (in person, virtual, or by phone) scheduled by the Early Childhood Graduate faculty.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission materials will be scored on a rubric to quantify decision criteria.

Students who do not meet published admission requirements may be admitted provisionally and will be interviewed by a faculty program committee for final admission action. Other admission factors that may be used in selecting students

for provisional admission to the program include previous teaching experience or work (i.e., social service agencies) with infants and young children, pre-kindergarten or primary age children and their families.

Application Deadlines

Early Childhood Development and Education MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Judith Levin, Ed.D.

Associate Lecturer

judith.levin@ucf.edu

Telephone: 407-823-4615

Education 122

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Institution Codes

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Telephone: 407-823-2827
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Economics MS

College: Business Administration	Degree: MS
Department: Economics	Option: Nonthesis
Program Websites: http://business.ucf.edu/graduate-programs/	
Graduate Program Handbook	

Program Description

The Master of Science in Economics degree program prepares students as economists specializing in business analytics. The program provides students with the necessary theoretical and quantitative training to address current economic business problems in a thoughtful, rigorous manner.

Today's job market offers numerous opportunities to individuals who couple an advanced understanding of economic theory with well-developed skills in data analytics.

Curriculum

The Economics MS program requires a minimum of 30 credit hours beyond the bachelor's degree.

All candidates for the MS degree must complete the end-of-program requirement, ECO 6935 Capstone in Business Analytics I and ECO 6936 Capstone in Business Analytics II.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 24 Credit Hours

Fall Term

- ECO 6403 - Mathematical Economics **3 Credit Hours**
- ECO 6118 - Microeconomic Theory I **3 Credit Hours**
- ECO 5445 - Introduction to Business Analytics **3 Credit Hours**
- MAP 6207 - Optimization Theory **3 Credit Hours**

Spring Term

- ECO 6424 - Econometrics I **3 Credit Hours**
- ECO 7116 - Microeconomic Theory II **3 Credit Hours**
- ECO 6315 - Seminar in Contemporary Economic Issues **3 Credit Hours**
- ECO 6445 - Data Wrangling **3 Credit Hours**

End-of-Program Requirement: 6 Credit Hours

The culminating academic experience of the program consists of a two-course capstone sequence that provides students a forum in which to develop, carry out, and write up research of a well-defined problem in business analytics using the tools developed in the program.

- ECO 6935 - Capstone in Business Analytics I **3 Credit Hours**
- ECO 6936 - Capstone in Business Analytics II **3 Credit Hours**

Independent Learning

The capstone research project is required of all students in the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Résumé.
- Two Letters of Reference: either two professors, if within two years of graduating, or one professor and a manager after that.
- Essay (no more than two pages; 8.5 x 11-inch stock, ten-point font, single-spaced, one-inch margins all around), explaining why candidate wants to study business analytics
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Economics MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	May 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Harry Paarsch PhD

Professor

harry.paarsch@ucf.edu

Telephone: 407-823-1576

BA2 - 302M

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Educational Leadership MA ►

College: Community Innovation and Education	Degree: MA
Department: Educational Leadership and Higher Education	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/elhe/educational-leadership/	
Graduate Program Handbook	

Program Description

The online Master of Arts in Educational Leadership program is not a state-approved program for certification in Florida. The program is designed to prepare students for administrative and leadership positions in school settings and other education-related fields that specifically do NOT require Florida certification. Some examples include administrative positions outside of Florida, around the nation and world, a private school headmaster, charter school administrator, community college or university staff administrator, or museum administrator.

The Educational Leadership MA also offers two tracks focused on higher education: Higher Education/Student Personnel and College Teaching and Leadership, both of which have different admission, enrollment, and graduation requirements.

The Higher Education/College Teaching and Leadership track is designed for individuals whose goal is to teach at the community college level. The Higher Education/Student Personnel track is designed to prepare students for leadership positions in a variety of student personnel/affairs departments on college and university campuses and education-related fields. Note, these programs have different admission, enrollment, and graduation requirements.

Please note: Educational Leadership, MA may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Program Tracks

- Educational Leadership MA, Higher Education/College Teaching and Leadership Track
- Educational Leadership MA, Higher Education/Student Personnel Track
- Educational Leadership MA, Student Athlete Support Services Track

Curriculum

The Educational Leadership MA program requires a minimum of 30 credit hours beyond the bachelor's degree, including 9 credit hours of research and measurement courses and 21 credit hours of administration courses. The courses may be taken in any order the student wishes but the culminating Research Report (EDA 6909) must be taken last. For student convenience and planning, at least two administration courses are projected to be offered each semester and the EDF courses offered each semester.

Students enrolled in the Florida state-approved MEd, EdS, or Modified Core programs in educational leadership may not take these online courses for credit unless approved by their educational leadership faculty adviser.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The MA program does not fulfill Florida certification requirements.

Required Courses—30 Credit Hours

Research and Measurement—9 Credit Hours

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- **OR**
- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDA 6909 - Research Report **3 Credit Hours**

Administration—21 Credit Hours

- EDA 6062 - Leadership in Educational Organizations **3 Credit Hours**
- EDA 6228 - Human Resource Processes in Education **3 Credit Hours**
- EDA 6234 - Personnel and Education Related Law **3 Credit Hours**
- EDA 6246 - Basic Education Funding and Management **3 Credit Hours**
- EDA 6275 - Digital Leadership and Systems Management **3 Credit Hours**
- EDA 6303 - Organizations and the Community **3 Credit Hours**
- EDA 6932 - Issues in Education **3 Credit Hours**

Independent Learning

Students are required to successfully complete the EDA 6909 Research Report. For more information, contact the graduate program coordinator.

Application Requirements

Applicants may apply to the online MA in Educational Leadership or one of the two tracks offered within the MA in Higher Education. The higher education track programs are not online programs and may have different requirements.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Educational Leadership MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Daniel Eadens, EdD
 Daniel.Eadens@ucf.edu
 Telephone: 407-823-4751
 ED 220-E

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766

Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Educational Leadership MA, Higher Education/College Teaching and Leadership Track

College: Community Innovation and Education	Degree: MA
Department: Educational Leadership and Higher Education	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/elhe/higher-education/	

Track Description

The Higher Education/College Teaching and Leadership track in the Educational Leadership MA program is designed for individuals planning to teach at that level and neither requires state teacher certification for admission nor prepares candidates for state teacher certification.

The program considers new applicants during fall and spring semesters only; passing a comprehensive exam at the end of the program is a graduation requirement.

Curriculum

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

The Higher Education/College Teaching and Leadership track in the Educational Leadership MA program is designed for individuals whose goal is to teach at the community college level. Every attempt is made to build the minimum required 18 hours of graduate-level content area courses into the program of study. Only six hours of independent study courses may be used to satisfy degree requirements. It is important to see an adviser if courses are difficult to schedule in the content area. Students electing this track will not meet state requirements for teacher certification in grades K-12. Successfully passing a comprehensive exam at the end of the program is a final graduation requirement.

Required Courses—24 Credit Hours

Students in this track should consult with the Higher Education/College Teaching and Leadership adviser regarding core requirements prior to registering for core courses.

- EDH 6053 - The Community College in America **3 Credit Hours**
- EDH 6081 - Contemporary Issues in Colleges **3 Credit Hours**
- EDH 6204 - Leadership in College Organizations **3 Credit Hours**
- EDH 6215 - The College Curriculum **3 Credit Hours**
- EDH 6305 - Teaching and Learning in Colleges and Universities **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- IDS 6504 - Adult Learning **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**

Elective Courses—18 Credit Hours

Courses must be approved by the student's adviser in one of the following disciplines:

- Art
- English
- English for Speakers of Other Languages (ESOL)
- Math
- Science
- Social Science (Select one: History, Sociology, Psychology, etc.)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Higher Education / College Teaching and Leadership	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Amanda Wilkerson EdD
 Assistant Professor
Amanda.Wilkerson@ucf.edu
 ED 222J

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Educational Leadership MA, Higher Education/Student Personnel Track

College: Community Innovation and Education	Degree: MA
Department: Educational Leadership and Higher Education	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/elhe/higher-education/	

Track Description

The Higher Education/Student Personnel Track in the Educational Leadership MA program is designed to prepare students for leadership positions in student personnel administration in higher education and education-related fields.

Higher Education Professionals work in a variety of settings on college and university campuses, from financial aid, orientation, and residence life to athletics, international services, and student activities. They provide services and develop programs that affect all aspects of students' lives inside and outside of the classroom.

Given the focus of the program, this master's degree does not lead to fulfillment of K-12 teacher certification requirements.

Curriculum

The Higher Education/Student Personnel track in the Educational Leadership MA program requires a minimum of 39 credit hours beyond the bachelor's degree, including six credit hours of core courses, 24 credit hours of specialization, three credit hours of electives, six credit hours of professional field experience, and passing a comprehensive exam at the end of studies.

Given the focus of the program, this master's degree does not lead to the fulfillment of K-12 teacher certification requirements.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 30 Credit Hours

Core: 6 Credit Hours

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours** or
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**

Specialization: 24 Credit Hours

Select 8 courses from the following list.

- EDH 6635 - Organization and Administration of Higher Education **3 Credit Hours**
- EDH 6065 - History and Philosophy of Higher Education **3 Credit Hours**
- EDH 6505 - Finance in Higher Education **3 Credit Hours**
- EDH 6935 - Capstone Seminar in College Student Personnel **3 Credit Hours**
- EDH 6407 - Ethical and Legal Issues in Student Personnel **3 Credit Hours**
- EDH 6634 - Student Personnel Services in Higher Education **3 Credit Hours**
- EDH 6047 - Theories of College Student Development **3 Credit Hours**
- EDH 6105 - Retention Strategies in Colleges and Universities **3 Credit Hours**

Elective Courses: 3 Credit Hours

- Electives approved by adviser

Professional Field Experience: 6 Credit Hours

- EDH 6946 - Internship **VAR Credit Hours**
- EDH 6947 - Practicum in Student Personnel **3 Credit Hours**

Independent Learning

Both an internship and practicum are required for completing the degree, in addition to a capstone seminar.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation, with one being from a staff, administrator, or faculty at a college or university familiar with your involvement or engagement in postsecondary education.
- Resumé.
- Personal statement explaining your past, present, and future involvement in events or activities related to your development in College Student Personnel.

An individual and group interview may be required. The Higher Education/Student Personnel track admits in fall term only.

Application Deadlines

All application materials must be submitted by the appropriate deadline listed below.

Higher Education / Student Personnel	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Nancy Marshall, EdD

Visiting Lecturer

Nancy.Marshall@ucf.edu

Telephone: 407-823-5369

ED 206H

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Educational Leadership MA, Student Athlete Support Services Track

College: Community Innovation and Education	Degree: MA
Department: Educational Leadership and Higher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/elhe/educational-leadership/	

Track Description

Admission to this program has been suspended effective Summer 2015.

The Student Athlete Support Services (SASS) Track in the Educational Leadership MA program prepares student support personnel for professional career positions working in athletic departments.

Curriculum

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

The Student Athlete Support Services track in the Educational Leadership MA program requires a minimum of 39 credit hours beyond the bachelor's degree, including six credit hours of core courses, 27 credit hours of specialization, six credit hours of professional field experience, and passing a comprehensive exam at the end of studies.

The MA program does not fulfill state certification requirements.

Required Courses: 33 Credit Hours

Core: 6 Credit Hours

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**

Specialization: 27 Credit Hours

- EDH 6635 - Organization and Administration of Higher Education **3 Credit Hours**
- EDH 6065 - History and Philosophy of Higher Education **3 Credit Hours**

- EDH 6935 - Capstone Seminar in College Student Personnel **3 Credit Hours**
- EDH 6407 - Ethical and Legal Issues in Student Personnel **3 Credit Hours**
- EDH 6634 - Student Personnel Services in Higher Education **3 Credit Hours**
- EDH 6047 - Theories of College Student Development **3 Credit Hours**
- EDH 6655 - Athletics in the American University **3 Credit Hours**
- EDH 6656 - Academic Success and the Student Athlete **3 Credit Hours**
- ADE 6678 - The Socio-Historical Context of Adult Education **3 Credit Hours**

Professional Field Experience: 6 Credit Hours

- EDH 6946 - Internship **VAR Credit Hours**
- EDH 6947 - Practicum in Student Personnel **3 Credit Hours**

Independent Learning

Both an internship and practicum are required for completing the degree, in addition to a capstone seminar.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation, with one being from a staff, administrator, or faculty at a college or university familiar with your involvement or engagement in postsecondary education.
- Resumé.
- Personal statement explaining your past, present, and future involvement in events or activities related to your development in Student Athlete Support Services.

An individual and group interview may be required. The Student Athlete Support Services track admits in fall and spring terms only.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Brenda Thompson EdD
heps@ucf.edu
Telephone: 407-823-4164
Education 206E

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

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Graduate Financial Aid

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Appointment Line: 407-823-5285
Fax: 407-823-5241

finaid@ucf.edu
http://finaid.ucf.edu

Educational Leadership MEd

College: Community Innovation and Education	Degree: MEd
Department: Educational Leadership and Higher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/elhe/educational-leadership/	
Graduate Program Handbook	

Program Description

The Master of Education in Educational Leadership program is intended for those who wish to work in leadership positions and administrative careers in education. The MEd program provides a theoretical and conceptual knowledge base and practical application required for principalship and for Florida Level I Educational Leadership certification.

Courses required in the program address the Florida Educational Leadership Standards and the Florida Educational Leadership Examination (FELE) competencies and indicators.

This Educational Leadership MEd program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Educational-Leadership-MEd.pdf>.

Curriculum

The Educational Leadership MEd program requires a minimum of 36 credit hours beyond the bachelor's degree, including 30 credit hours of core courses and 6 credit hours of required administrative internship. Courses may be taken in any sequence with the exception of EDA 6946, which must be taken during the last two semesters.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

The MEd program provides the theoretical and conceptual knowledge base with practical application required for the principalship and for Florida Level I Educational Leadership certification. Courses required in the program address the Florida Educational Leadership Standards and Florida Educational Leadership Examination (FELE) competencies and indicators required by the Florida Department of Education. Students are required to pass the FELE for graduation. An MEd in Educational Leadership or its equivalent, and successful completion of the FELE are required by the state of Florida for Level 1 Educational Leadership certification (Certification is subject to Florida Department of Education approval).

The MEd program requires an administrative internship. The internship is an independent learning activity that takes place in a regular K-12 public school setting in which students must apply, reflect on, and refine knowledge and skills acquired in the program. For more information concerning the Educational Leadership internship, please refer to the Educational Leadership website at: education.ucf.edu/edleadership (click on Guide to the Administrative Internship).

MEd students in Educational Leadership will document the experience with each of the Florida Principal Leadership Standards (FPLS) and Florida Educational Leadership Exam (FELE) competencies during the EDA 6946 Administrative Internship. This documentation and successful completion of the administrative internship (grade of A or B) will serve as the culminating experience required for graduation.

Modified Leadership Core Program for Those with Graduate Degrees in Other Disciplines

If an individual holds a graduate degree with a major other than Educational Administration, Administration, Supervision or Educational Leadership, certification may be obtained through completion of an approved modified program in Educational Leadership. The UCF modified program consists of the seven core courses and Administrative Internship course of the Educational Leadership MEd degree. Request an evaluation of prior graduate course work (required for admission into the program) on the following website: education.ucf.edu/edleadership/.

Required Courses: 36 Credit Hours

Core: 30 Credit Hours

The program recommends that students take these courses in the following sequence:

- EDA 6061 - Organization and Administration of Schools **3 Credit Hours**
- EDA 6232 - Legal Aspects of School Operation **3 Credit Hours**
- EDA 6240 - Educational Financial Affairs **3 Credit Hours**
- EDA 6260 - Educational Systems Planning and Management **3 Credit Hours**
- EDA 6931 - Contemporary Issues in Educational Leadership **3 Credit Hours**
- EDA 6423 - Data-Based Decision Making for School Educational Leaders **3 Credit Hours**
- EDS 6123 - Educational Supervisory Practices I **3 Credit Hours**
- EDS 6130 - Educational Supervisory Practices II **3 Credit Hours**
- EDA 6300 - Community School Administration **3 Credit Hours**
- EDA 6502 - Organization and Administration of Instructional Programs **3 Credit Hours**

Internship: 6 Credit Hours

The internship should be completed during or after the last two semesters of coursework listed above.

- EDA 6946 - Internship **VAR Credit Hours**

Additional Program Requirements

- Complete the Administrative Graduate Internship with a minimum grade of B.
- Pass all applicable sections of the Florida Educational Leadership Examination.

Equipment Fee

Students in the Educational Leadership MEd program pay a \$32 equipment fee each semester that they are enrolled. Part-time students pay \$16 per semester.

Independent Learning

The MEd program requires an administrative internship. The administrative internship is an independent learning activity that takes place in a regular K-12 public school setting in which students must apply, reflect on, and refine knowledge and skills acquired in the program. For more information concerning the Educational Leadership internship, please refer to the Educational Leadership website at: <http://education.ucf.edu/edleadership> (click on Internship Guide).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A letter of recommendation from a principal or other administrator addressing your potential lead and instructional expertise.
- Last 3 years of effective or highly effective teaching evaluations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Education Leadership MEd	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Daniel Eadens, EdD

Daniel.Eadens@ucf.edu

Telephone: 407-823-4751

ED 220-E

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu
http://finaid.ucf.edu

Electrical Engineering MSEE

College: Engineering and Computer Science	Degree: MSEE
Department: Electrical and Computer Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.ece.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Electrical Engineering students receive a broad background in areas such as electromagnetics and optics, signal processing and systems, and micro-systems and nano-systems.

The Department of Electrical Engineering (Electrical Engineering Program) supports a number of technical (research) areas in which a Master of Science student may specialize. These technical areas are: Electromagnetics and Optics (EO), Signal Processing and Systems (SPS), and Micro-Systems and Nano-Systems (MNS). The Micro-Systems and Nano-Systems area covers the typical Electrical Engineering topic areas of Electronics, Power Electronics, and Micro-Electronics, while the Signal Processing and Systems area covers the typical electrical topic areas of communications, controls, and signal processing. All MSEE programs offer a thesis and a nonthesis option, as well as an Accelerated BS to MSEE program. Students in the program receive a broad background in the various technical areas while specializing in a research area of their interest.

The specific research area that each one of the EE faculty conduct can be found at the Department of EE website (www.ece.ucf.edu/).

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Electrical-Engineering-MS.pdf>.

Program Tracks

- Electrical Engineering MSEE, Accelerated BS to MSEE Track

Curriculum

The master's program offers both a thesis option and a nonthesis option in a technical specialization area. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework and 6 credit hours of thesis. The nonthesis option requires 30 credit hours of coursework with 24 credit hours of formal coursework with a possibility of 6 credit hours of Independent Study (e.g., XXX 6908) based on availability of interested faculty.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Articulation

Undergraduate articulation courses are required to be completed prior to admission for students who do not hold a Bachelor of Science degree in Electrical Engineering. In particular, the articulation courses specified below, plus all of the prerequisite string which any of them require, must be completed prior to admission. Grades of "B" or higher must be obtained in each articulation course specified below. Articulation courses are not eligible for inclusion on a graduate Program of Study.

- EEL 3123C - Network and Systems
- EEE 3307C - Electronics I
- EEL 3470 - Electromagnetic Fields
- EEL 3552 - Signal Analysis and Communications
- EEE 3350 - Semiconductor Devices I

In addition, choose one of the following:

- EEL 3657 - Linear Control Systems
- EEE 4309C - Electronics II
- EEL 4750 - Digital Signal Processing Fundamentals

Elective Courses: 24 Credit Hours

There are no required courses within a specialization area, however, all students (thesis and nonthesis) must choose at least 24 credit hours of formal courses, excluding research-related courses and Independent Study (XXX 6908) that emphasize their specialization area. Courses from outside specialization areas could also be chosen if they are approved by the student's adviser and incorporated into the Program of Study for the student.

The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog and must also receive departmental-level and college-level approval.

Suggested Courses for the MSEE Program

The Electrical Engineering Program supports a number of specialization areas. These technical areas are: Electromagnetics and Optics (EO), Signal Processing and Systems (SPS), and Micro-Systems and Nano-Systems (MNS). The Micro-Systems and Nano-Systems area covers the typical Electrical Engineering topic areas of Electronics, Power Electronics and Micro-Electronics, while the Signal Processing and Systems area covers the typical electrical topic areas of communications, controls, and signal processing.

For each one of these areas there is a suggested list of courses stated below. Students are also allowed to take courses from other specialization areas, but the majority of their courses should be chosen from courses in their specialization area.

Electromagnetics and Optics (EO)

- EEE 5542 - Random Processes I **3 Credit Hours**
- EEE 5557 - Introduction to Radar Systems **3 Credit Hours**
- EEL 5437C - Microwave Engineering **4 Credit Hours**
- EEL 5439C - RF and Microwave Active Circuits **4 Credit Hours**
- EEL 5462 - Antenna Analysis and Design **3 Credit Hours**
- EEL 5432 - Satellite Remote Sensing **3 Credit Hours**
- EEL 6425C - RF and Microwave Measurement Techniques **4 Credit Hours**

- EEL 6481 - Numerical Techniques in Electromagnetics **3 Credit Hours**
- EEL 6482 - Electromagnetic Theory I **3 Credit Hours**
- EEL 6489 - Advanced Topics in Electromagnetics and Microwaves **3 Credit Hours**
- EEL 6504 - Communications Systems Design **3 Credit Hours**
- EEL 6530 - Communication Theory **3 Credit Hours**
- MAP 5426 - Special Functions **3 Credit Hours**
- MAP 5435 - Advanced Mathematics for Engineers **3 Credit Hours**
- MAP 6424 - Transform Methods **3 Credit Hours**
- OSE 5041 - Introduction to Wave Optics **3 Credit Hours**
- OSE 5414 - Fundamentals of Optoelectronic Devices **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 6143 - Fiber Optics Communication System **3 Credit Hours**
- OSE 6211 - Imaging and Optical Systems **3 Credit Hours**
- OSE 6421 - Integrated Photonics **3 Credit Hours**
- OSE 6432 - Guided Waves and Optoelectronics **3 Credit Hours**
- OSE 6445 - Fundamentals of Ultrafast Optics **3 Credit Hours**
- OSE 6455C - Photonics Laboratory **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**
- OSE 6615L - Optoelectronic Device Fabrication Laboratory **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**

Micro-Systems and Nano-Systems (MNS)

- BME 5572 - Biomedical Nanotechnology **3 Credit Hours**
- EEL 5245 - Power Electronics **3 Credit Hours**
- EEE 5332C - Thin Film Technology **3 Credit Hours**
- EEE 5352 - Semiconductor Material and Device Characterization **3 Credit Hours**
- EEE 5353 - Semiconductor Device Modeling and Simulation **3 Credit Hours**
- EEE 5356C - Fabrication of Solid-State Devices **4 Credit Hours**
- EEE 5370 - Operational Amplifiers **3 Credit Hours**
- EEE 5378 - CMOS Analog and Digital Circuit Design **3 Credit Hours**
- EEE 5390C - Full-Custom VLSI Design **3 Credit Hours**
- EEE 5555 - Surface Acoustic Wave Devices and Systems **3 Credit Hours**
- EEE 6317 - Power Semiconductor Devices and Integrated Circuits **3 Credit Hours**
- EEE 6358 - Advanced Semiconductor Device I **3 Credit Hours**
- EEL 6246 - Power Electronics II **3 Credit Hours**
- EEE 6326C - MEMS Fabrication Laboratory **3 Credit Hours**
- EEE 6338 - Advanced Topics in Microelectronics **3 Credit Hours**

Signal Processing and Systems (SPS)

- EEE 5513 - Digital Signal Processing Applications **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**
- EEE 5557 - Introduction to Radar Systems **3 Credit Hours**
- EEE 6504 - Adaptive Digital Signal Processing **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**

- EEL 5630 - Digital Control Systems **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 6504 - Communications Systems Design **3 Credit Hours**
- EEL 6530 - Communication Theory **3 Credit Hours**
- EEL 6590 - Advanced Topics in Communications **3 Credit Hours**
- EEL 6812 - Introduction to Neural Networks **3 Credit Hours**
- EEL 6619 - Nonlinear Robust Control and Applications **3 Credit Hours**
- EEL 6621 - Nonlinear Control Systems **3 Credit Hours**
- EEL 6662 - Advanced Robotics **3 Credit Hours**
- EEL 6667 - Mobile Robotic Systems **3 Credit Hours**
- EEL 6671 - Modern and Optimal Control Systems **3 Credit Hours**
- EEL 6674 - Optimal Estimation for Control **3 Credit Hours**
- EEL 6616 - Adaptive Control **3 Credit Hours**
- EEL 6683 - Cooperative Control of Networked Autonomous Systems **3 Credit Hours**
- EEL 5669 - Introduction to Robotics and Autonomous Vehicles **3 Credit Hours**
- EEL 6026 - Optimization of Engineering Systems **3 Credit Hours**
- CAP 5415 - Computer Vision **3 Credit Hours**
- CAP 6411 - Computer Vision Systems **3 Credit Hours**
- CAP 6412 - Advanced Computer Vision **3 Credit Hours**
- CAP 6419 - 3D Computer Vision **3 Credit Hours**

Thesis Option: 6 Credit Hours

The thesis option requires 6 credit hours of thesis work (EEL 6971) in addition to the 24 credit hours of formal elective courses.

Please note the following requirements for this option:

- 24 credit hours of courses must be taken in the student's chosen specialization area.
- No more than 6 credits of thesis (EEL 6971) will be counted toward the degree requirement.
- At least half of the coursework, including Thesis XXX 6971, must be at the 6000-level (typically at least 15 credit hours).
- Thesis students who are full time must continue to enroll in three credit hours of thesis coursework each semester until the thesis requirement is satisfied, beyond the minimum of 6 credit hours of thesis, but only 6 hours total will count toward the degree requirement.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least **two weeks** before the defense date.

- EEL 6971 - Thesis **3 Credit Hours** (taken twice)

Nonthesis Option: 6 Credit Hours

The nonthesis option is especially suited for part-time students. Nonthesis students must complete 6 credit hours of electives in addition to the 24 credit hours of formal coursework described above.

If approved by the student's adviser, the student may include a total of 6 credit hours as an Independent Study (XXX 6908). At least half of the coursework must be at the 6000-level (typically at least 15 credit hours).

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course withdrawal date of the semester prior to their intended graduation. Portfolio requirements are listed on the EECS website at <http://www.eecs.ucf.edu/>.

Transfer Credits

Graduate students with a bachelor's degree in Electrical Engineering from UCF may transfer up to 9 credit hours of 5000-level or higher coursework, with grades of B or higher, toward the MSEE degree. Alternatively, a maximum of 9 credit hours may be transferred of graduate work conducted elsewhere from an accredited institution.

Equipment Fee

Students in the Electrical Engineering MSEE program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Electrical Engineering or a related discipline.
- GRE is not required for MSEE applicants with a BS degree in EE or CpE and with a minor in any of following disciplines of EE, CpE or CS.
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Application Deadlines

Electrical Engineering MSEE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kalpathy Sundaram PhD
 Professor
 eecpe-grad@eecs.ucf.edu
 Telephone: 407-823-5326
 HEC 439B

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address
 UCF College of Graduate Studies

Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Electrical Engineering MSEE, Accelerated BS to MSEE Track

College: Engineering and Computer Science	Degree: MSEE
Department: Electrical and Computer Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.ece.ucf.edu/	

Track Description

The accelerated undergraduate/graduate program in Electrical Engineering allows highly qualified undergraduate majors in Electrical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

Students in the Electrical Engineering degree programs receive a broad background in areas such as communications, controls/robotics, digital signal processing, electromagnetics, power electronics and electronics, electro-optics/photonics, solid state and microelectronics while specializing in a research area of their interest.

Research interests of the Electrical Engineering faculty include antennas, microwave and millimeter circuits and devices, communication systems, digital signal/image processing, power electronics, electronic circuits, IFF devices, electromagnetic theory, radar and microwave remote sensing, speech processing, VLSI design, spread spectrum

systems, SAW and ACT devices, spectral estimation, solid state device modeling and computer-aided design (CAD) techniques, communication networks, integrated services digital networks, neural networks, systems and controls, robotics, robust control, computer control, microelectronics, semiconductors, thin films, power system stability, bipolar device modeling, solid state lasers, optical propagation, fiber optics, optical signal processing, laser-induced damage, optical testing, diffractive optics, phase conjunction, infrared detectors, Fourier optics, lens design, and nonlinear optics.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Electrical-Engineering-MS.pdf>.

Curriculum

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Up to 12 credit hours of approved 5000- and 6000-level courses of grades "B" (3.0) or better may be counted toward the BS and MS degrees.

Undergraduate Requirements

Application must be made no earlier than the semester after completing 60 credit hours toward the bachelor's degree yet before completing 90 credit hours. A minimum GPA of 3.5 is required prior to admission.

Graduate Requirements

A complete application to the master's degree program must be received before admission deadlines of the semester in which the master's enrollment will commence. Students satisfy all requirements for master's admission in order to continue in the program once the bachelor's degree is awarded. At time of application for master's admission, students must specify BSMS-Accelerated as the master's degree track at time of graduate admission application to the MSEE program.

Equipment Fee

Students in the Electrical Engineering MSEE program pay a \$63 equipment fee each semester that they are enrolled. Part-time students pay \$31 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The **Accelerated BS to MS program** in Electrical Engineering allows highly qualified University of Central Florida undergraduate majors in Electrical Engineering to begin taking graduate level courses that will count toward their

master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline, but were not previously part of this accelerated program, then they should apply to the **Electrical Engineering MS program** without a track selection. Additional information about this track may be located at: <http://www.cecs.ucf.edu/current-students/bs-ms-program>.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Electrical Engineering or a related discipline.
- GRE is not required for MSEE applicants with a BS degree in EE or CpE and with a minor in any of following disciplines of EE, CpE or CS.
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Application Deadlines

Accelerated BS to MSEE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
This track is available to University of Central Florida undergraduate majors in Electrical Engineering only.				
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

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Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Elementary Education MA

College: Community Innovation and Education	Degree: MA
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/elementary-education/	
Graduate Program Handbook	

Program Description

The Master of Arts in Elementary Education program is state-approved and provides the necessary qualifications for initial teacher certification (Grades K-6) for individuals who have an undergraduate degree in a field other than Elementary Education and who wish to become certified to teach in this field. This program is committed to preparing highly qualified Elementary Education teachers with knowledge and skills aligned with research-based best practices. Additionally, graduates from this program will have the necessary requirements to apply for state-approved ESOL Endorsement (Grades K-12) and Reading Endorsement (Grades K-12) upon graduation.

The Master of Arts in Elementary Education (Grades K-6) ESOL Endorsement/Reading Endorsement (Grades K-12) is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements. For more information on how this program meets certification requirements, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Elementary-Ed-MA.pdf>.

Curriculum

The Elementary Education MA requires a minimum of 48 credit hours beyond the bachelor's degree. If the MA program will be providing a student's initial certification, 80 clock hours of field experience must be completed before enrolling in the supervised internship.

Total Credit Hours Required: 48 Credit Hours Minimum beyond the Bachelor's Degree

The program requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the pre-professional level of performance for all of the Florida Educator Accomplished Practices. Multiple artifacts and reflective analyses are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of assessing the professional development of students as reflective practitioners. The program also requires an internship.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <https://ccie.ucf.edu/explore-via/>.

Students should plan to enroll in EDE 6933 during the first semester. Students should also plan to enroll in TSL 5085 early in the program to learn about infused English Speakers of Other Languages (ESOL) requirements including preparation of the TESOL notebook.

Contact the program coordinator before choosing classes for your first semester.

Co-requisite

Undergraduate courses are not counted in the 48 credit hours of graduate courses that are required for the degree.

- EEX 4070 Teaching Exceptional Students **3 Credit Hours**

Required Courses: 48 Credit Hours

Core: 18 Credit Hours

- EDE 6933 - Introductory Seminar in Elementary Education **1 Credit Hours**
(The Introductory Seminar should be taken in the first semester of the program, when possible.)
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- EDE 6935 - Capstone Seminar in Elementary Education **2 Credit Hours** (Capstone Seminar should be taken in the final semester during Graduate Internship.)

Specialization: 24 Credit Hours

Note: EDE 6933 is a prerequisite or co-requisite for the specialization courses below.

- LAE 5319 - Methods of Elementary School Language Arts **3 Credit Hours**
- LAE 5415 - Children's Literature in Elementary Education **3 Credit Hours**
- MAE 6318 - Current Methods in Elementary School Mathematics **3 Credit Hours**
- SCE 6315 - Methods in Elementary School Science **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours**
- RED 5948 - Practicum in Reading Assessment and Instruction **3 Credit Hours**
- SSE 6115 - Methods in Elementary School Social Science **3 Credit Hours**

Internship: 6 Credit Hours

Satisfactory completion of graduate internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065.

- EDE 6946 Graduate Internship **6 Credit Hours**

Students should ensure that they meet all requirements for Graduate Internship:

- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate FTCE exams (GKT, Subject Area, and Professional Area Exams) are required prior to admission to the graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at: <http://www.education.ucf.edu/clinicalexp/>.
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Additional Program Requirements

- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in all Florida Educator Accomplished Practices.
- Complete and submit all TESOL portfolio assignments to address Florida ESOL competencies.
- Pass all applicable sections of the Florida Teacher Certification Examination.

NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a **new** Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

Independent Learning

A portfolio is required that demonstrates professional growth, reflection, and proficiency in all Florida Educator Accomplished Practices. An internship is also required that demonstrates proficiency in all Florida Educator Accomplished Practices.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) **OR** a competitive score on the Graduate Record Exam (GRE). This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.

UPDATE: In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted on or after July 1, 2015, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT SUBTEST	GRE SUBTEST	MINIMUM GRE SCORE REQUIRED TO SUBSTITUTE FOR GK SUBTEST
GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151
GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Elementary Education MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Contact Info

Graduate Program

Lisa Brooks
Associate Lecturer
Lisa.Brooks@ucf.edu
ED 220

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127

gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Elementary Education MEd

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Websites: https://ccie.ucf.edu/teachered/elementary-education/	
Graduate Program Handbook	

Program Description

The Elementary Education M.Ed. program is designed to meet the needs of educators focused on Grades K-6. It provides experiences in the foundations of education, an update of the student's skills and understanding related to current research and instructional trends in basic subject matter areas, and elective choices in specific areas.

Teachers with a temporary teaching certificate, who have obtained a statement of eligibility, may be accepted into the program and may have the opportunity to include coursework required by the state of Florida to move to professional certification. However, the Elementary Education MA program is specifically designed for elementary education teaching certification. Therefore, contact the program advisor to determine which is appropriate for your circumstances.

Curriculum

The MEd in Elementary Education requires a minimum of 30 credit hours beyond the bachelor's degree and offers a thesis and nonthesis option. The nonthesis option requires a research study in one or more courses. The research study and final report will focus on reviewing and analyzing contemporary research in a student's particular specialization within the education profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. Both options require 6 credit hours of core courses and a minimum of 15 credit hours of elective specialization courses, in addition to the 9 credit hours required in the thesis or nonthesis options. At minimum, 50 percent of the program coursework completed for the MEd must be at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Students should plan to take EDE 6933 Introductory Seminar in Elementary Education during the first semester of enrollment. Students should take EDE 6935, which includes a program culminating experience, during the final semester in the program.

Required Courses: 6 Credit Hours

Note: Courses with an asterisk (*) require an independent learning experience in the form of research studies.

These courses are offered online.

- EDE 6933 - Introductory Seminar in Elementary Education **1 Credit Hours** *
- EDE 6935 - Capstone Seminar in Elementary Education **2 Credit Hours** *
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours** *

Specialization and Electives: 24 Credit Hours

Consult with your advisor to determine the coursework that will best meet your professional goals. Choose from the following specializations: ESOL Endorsement, Reading Endorsement, Gifted Endorsement, Exceptional Education Certificate, General Elementary Education, Dual Language, Early Childhood Education, or K-8 Mathematics and Science. The adviser may approve courses taken as part of a UCF graduate certificate program for this area of the MEd (up to 18 credit hours).

- EDS 5356 Mentoring and Clinical Supervision of Pre- Professional Educators-highly recommended. (This course prepares you to supervise interns. For each senior intern and two junior interns you supervise, you will earn a Certificate of Participation which covers the cost of 6 credit hours of tuition.)

Reading Endorsement

Must take all 18 hours after applying for the reading endorsement certification program. These classes must be completed within 3 years.

- RED 5147 - Developmental Reading **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours**
- RED 6845 - Advanced Evaluation and Instruction in Reading **3 Credit Hours**
- RED 6846 - Reading Practicum **6 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**

ESOL Endorsement K-12 Graduate Certificate

Must take all 15 hours after applying for the ESOL endorsement certification program. Upon successful completion, students will need to complete separate paperwork with the state of Florida for official recognition of this endorsement.

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- TSL 5525 - ESOL Cultural Diversity **3 Credit Hours**
- TSL 6142 - Critical Approaches to ESOL **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6440 - Assessment Issues in TESOL **3 Credit Hours**

Professional Teaching Certificate

Refer to your statement of eligibility. Upon successful completion, students will need to pass all sections of FTCE and complete separate paperwork with the state of Florida for official recognition.

- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**
- EEX 5051 - Exceptional Children in the Schools **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- (ADD TSL 6250- Applied Linguistics in ESOL for ESOL Certificate. Note: This is NOT the same as the ESOL Endorsement)

General Elementary Education Specialization

- ISC 6146 - Environmental Education for Educators **3 Credit Hours**
- LAE 5295 - Writing Workshop **1-3 Credit Hours**
- LAE 5319 - Methods of Elementary School Language Arts **3 Credit Hours** (Use this course if no previous language arts methods course has been taken.)
- LAE 5415 - Children's Literature in Elementary Education **3 Credit Hours** (Use this course only if no previous children's literature course has been taken.)
- LAE 5495 - Assessing Writing **3 Credit Hours**
- LAE 6296 - Advanced Writing Workshop **1-3 Credit Hours**
- LAE 6417 - Investigation in Children's Literature **3 Credit Hours**
- LAE 6616 - Trends in Language Arts Education **3 Credit Hours**
- LAE 6936 - Seminar in Language Arts Education **3 Credit Hours**
- MAE 6318 - Current Methods in Elementary School Mathematics **3 Credit Hours**
- MAE 6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher **3 Credit Hours**
- MAE 6641 - Problem Solving and Critical Thinking Skills **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours** (Use this course if no previous reading diagnosis course has been taken.)
- RED 6116 - Advanced Study in Foundations of Reading **3 Credit Hours**
- SCE 5836 - Space and Physical Science for Educators **3 Credit Hours**
- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**
- TSL 6142 - Critical Approaches to ESOL **3 Credit Hours**
- TSL 6440 - Assessment Issues in TESOL **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**

Exceptional Education Specialization

Must take all 18 hours after applying for the Special Education Graduate Certificate Program. These courses are offered online.

- EEX 5051 - Exceptional Children in the Schools **3 Credit Hours**
- EEX 6061 - Instructional Strategies Pre-K-6 **3 Credit Hours**
- EEX 6065 - Programming for Students with Disabilities at the Secondary Level **3 Credit Hours**
- EEX 6107 - Teaching Spoken and Written Language **3 Credit Hours**

- EEX 6295 - Assessment and Curriculum Prescriptions for the Exceptional Population **3 Credit Hours**
- EEX 6612 - Methods of Behavioral Management **3 Credit Hours**

Early Childhood Education

- EEC 5205 - Programs and Trends in Early Childhood Education **3 Credit Hours**
- EEC 6216 - Communicative Arts in Early Childhood Education **3 Credit Hours**
- EEC 6269 - Play Development, Intervention, and Assessment **3 Credit Hours**
- EEC 6405 - Home-School-Community Interaction in Early Childhood Education **3 Credit Hours**
- EEC 6406 - Guiding and Facilitating Social Competence **3 Credit Hours**
- EEC 6606 - Global Issues in Early Childhood **3 Credit Hours**

Gifted Education Certification

Take all 15 credits after applying for the Gifted Certification Program. These courses are offered online.

- EGI 6051 - Understanding the Gifted/Talented Student **3 Credit Hours**
- EGI 6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners **3 Credit Hours**
- EGI 6246 - Education of Special Populations of Gifted Students **3 Credit Hours**
- EGI 6305 - Theory and Development of Creativity **3 Credit Hours**
- EGI 6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals **3 Credit Hours**

Mathematics and/or Science Specialization

- IDS 6937 - Teaching Mathematics and Science Using Reform-Based Practices **3 Credit Hours**
- MAE 6318 - Current Methods in Elementary School Mathematics **3 Credit Hours**
(Use this course if no previous mathematics education course has been taken.)
- MAE 6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher **3 Credit Hours**
- MAE 6641 - Problem Solving and Critical Thinking Skills **3 Credit Hours**
- MAE 6899 - Seminar in Teaching Mathematics **3 Credit Hours**
- SCE 5836 - Space and Physical Science for Educators **3 Credit Hours**

Dual Languages Graduate Certificate

Select six of the following seven courses after applying for the dual languages certificate program. Please consult with your adviser to help you choose the courses that best fit the needs for your future career.

- SPN 6940 - Teaching Methods for the Spanish Classroom **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- TSL 6143 - Curriculum and Instruction in Dual Language Programs **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom **3 Credit Hours**
- TSL 6443 - Assessment in Dual Language Programs **3 Credit Hours**

- TSL 6526 - Interdependencies of Language, Culture, and Education for Dual Language Learners **3 Credit Hours**

Thesis Option: 9 Credit Hours

- EDE 6971 Thesis **6 Credit Hours**
and
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**

Nonthesis Option: 9 Credit Hours

A culminating experience is required in this option.

- Electives (9 credit hours) selected with the permission of the adviser

Independent Learning

The program requires a research study in both the EDE 6933 and EDE 6935 courses. The research study and final report will focus on reviewing and analyzing contemporary research in a student's particular specialization within the education profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
and
- A current Florida Professional Teaching Certificate in the program's subject area. Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the MEd program at the discretion of the program director.

Or

- A Temporary Teaching Certificate, a passing score on the GKT and SAE sections of the Florida Teacher Certification Examination (FTCE), and at least 1 year of successful teaching experience.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Elementary Education MEd	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Teachers who have supervised interns in the past have earned Certificates of Participation (COPs) that qualify for free tuition waivers. For more information about this opportunity: <https://edcollege.ucf.edu/clinicalexp/> and select "Collaborating Teachers" on the page. To access this request form: <https://edcollege.ucf.edu/wp-content/uploads/sites/8/2017/09/COPGuidelinesRequestForm.pdf>

Note that you may register for 6 or more credit hours each semester. If you only use 3, the other 3 are forfeited.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Lisa Brooks
Associate Lecturer
Lisa.Brooks@ucf.edu
ED 220

Graduate Admissions

TBA
gradadmissions@ucf.edu
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Millican Hall 230

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
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Emergency and Crisis Management MECM ►

College: Community Innovation and Education	Degree: MECM
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/emergency-management/	
Graduate Program Handbook	

Program Description

The Master of Emergency Management and Crisis (MECM) is designed to prepare individuals to practice as highly trained practitioners in the emergency management field through the development of core competencies including: resiliency, hazard mitigation and analysis, disaster response and recovery, emergency preparedness and planning, fiscal

management, communication, intergovernmental administration, geographic information systems, legal and ethical decision making, cultural competency and diversity, and general emergency management.

The frequency of man-made and natural disasters has dramatically increased since the 1990s; emergency and disaster declarations in the U.S. reflect it. Florida is the fifth highest state with 69 major disaster declarations between 1953 and 2016 (Congressional Research Service, 2017). For communities to be prepared for, respond to, recover from, and mitigate these disasters, an educated workforce of emergency management specialists is required. Students in UCF's Master in Emergency and Crisis Management program will learn and demonstrate the competencies required to lead and manage in this dynamic and complex profession.

Please Note: The Emergency and Crisis Management MECM may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Master of Emergency and Crisis Management program requires a minimum of 36 credit hours beyond the bachelor's degree. The program is offered completely online and students have an option of taking part-time or full-time coursework.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—36 Credit Hours

Emergency and Crisis Management Core Courses—30 Credit Hours

- PAD 6399 - Foundations of Emergency Management and Homeland Security **3 Credit Hours**
- PAD 6825 - Cross-Sectoral Governance **3 Credit Hours**
- PAD 6700 - Research Methods in Public Administration **3 Credit Hours**
(PAD 6700 is a prerequisite)
- PAD 6397 - Managing Emergencies and Crises **3 Credit Hours**
- PAD 6705 - Public Sector Communications **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6398 - Hazard Analysis and Disaster Planning **3 Credit Hours**
- PAD 6439 - Leadership in Public Service **3 Credit Hours**
- PAD 6946 - Internship **3 Credit Hours** (Required unless 3+ years of related experience)
- PAD 6086 - Advanced Concepts and Applications in Emergency and Crisis Management **3 Credit Hours**

Additional Elective Courses—6 Credit Hours

Select from the list below.

- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 5887 - Energy Policy **3 Credit Hours**
- PAD 6200 - International Emergency and Crisis Management **3 Credit Hours**
- PAD 6307 - Public Policy Analysis and Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6353 - Environmental Planning and Policy **3 Credit Hours**
- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**
- CCJ 6027 - Criminal Justice Responses to Terrorism **3 Credit Hours**
- CPO 6729 - Global Security in the Age of Migration **3 Credit Hours**
- IDC 5602 - Cybersecurity: A Multidisciplinary Approach **3 Credit Hours**
- INR 6136 - Seminar in American Security Policy **3 Credit Hours**
- PLA 5587 - Current Issues in Cyberlaw **3 Credit Hours**
- POS 6686 - National Security Law **3 Credit Hours**
- PUR 6403 - Crisis Public Relations **3 Credit Hours**

Additional Program Requirements

- Students must achieve a grade of "B-" (80%) or higher in all Emergency and Crisis concentration courses.
- Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue, and service learning. Tangible projects such as strategic plans, grant proposals, commercialization plans and case studies along with projects, scholarly papers, internships, and presentations at professional conferences contribute to the self-development of our students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Three letters of recommendation specifically for the MECM program. Letters of recommendation should be from professors, researchers, or professional administrators who can attest to the applicant's ability to succeed in graduate coursework and his or her work ethic.
- Résumé: The most current, professional resume should be provided.
- Statement of goals: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be single-spaced, one-inch margins, and no longer than two pages (500-800 words). Applicant must address the following:
 - Reason for pursuing graduate study in Emergency and Crisis Management, including future goals and plans.

- Topics or areas of special interest in Emergency and Crisis Management.
- Expectations of the graduate program.
- What the applicant will bring to the program that would make him or her a special candidate for admission to this program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL requirements regardless of the language in which the undergraduate program was completed.

Admission to this program is competitive. Applicants are encouraged to apply early to this program. All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Students are expected to be computer literate upon entry to the program. This program is completely online, so computer skills and computer internet access are necessary to take the courses.

Application Deadlines

Emergency and Crisis Management MECM	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
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Contact Info

Graduate Program

Qian Hu, PhD

Associate Professor MECM Program Director
Qian.Hu@ucf.edu
Telephone: 407-823-3340

Nasrin Lakhani, MNM

Manager Graduate Advising and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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finaid@ucf.edu
<http://finaid.ucf.edu>

Engineering Management MSEM ► ◆◆

College: Engineering and Computer Science	Degree: MSEM
Department: Industrial Engineering and Management Systems	Option: Thesis, Nonthesis
Program Websites: http://www.iems.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Engineering Management degree in Industrial Engineering focuses on effective decision-making in engineering and technological organizations.

The degree is offered on campus and can be taken entirely through the Florida Engineering Educational Delivery System (FEEDS), which provides video-streamed versions of classes over the internet.

The Professional Engineering Management (PEM) track is designated as a Professional Science Master's (PSM) degree.

Please note: Engineering Management (MS) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Engineering-Management-MS.pdf>.

Program Tracks

- Engineering Management MSEM, Professional Project and Systems Engineering Track ♦♦

Curriculum

This program can be taken entirely through the Florida Engineering Educational Delivery System (FEEDS), which provides video-streamed versions of classes over the Internet.

The Engineering Management MSEM degree requires an undergraduate degree in Engineering or a closely related discipline. Students with undergraduate degrees outside of industrial engineering may be required to take additional prerequisites. An approved program of study must be developed in consultation with the graduate program director. The total number of hours is 30 credit hours.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

- Mathematics through Calculus II (MAP 2312)

Required Courses—9 Credit Hours

- EIN 5140 - Project Engineering **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- EIN 6357 - Advanced Engineering Economic Analysis **3 Credit Hours**

Concentration Courses—9 Credit Hours

- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**
- EIN 6370 - Innovation in Engineering Design **3 Credit Hours**
- EIN 6182 - Engineering Management **3 Credit Hours**

Capstone Required Course—3 Credit Hours (For Non-Thesis Only Option)

- EIN 6950 - Industrial and Systems Engineering Capstone **3 Credit Hours**

Thesis Option—12 Credit Hours

Thesis students must complete an independent research project and then write and successfully defend their thesis. Furthermore, an additional 6 credit hours of electives are required beyond the 18 credit hours of required courses described above.

- EIN 6971 - Thesis **6 Credit Hours**
- Elective **6 Credit Hours**

Nonthesis Option—9 Credit Hours

Nonthesis students must take 9 additional credit hours of electives beyond the 21 credit hours of required courses described above.

The nonthesis option requires a capstone course. The capstone course should be completed toward the end of the student's graduate plan of study. As part of the requirements of this courses, the student will complete an independent capstone project on a topic relevant to the industrial and systems engineering field and approved by the instructor. Students are expected to use and leverage knowledge obtained in the program to complete the project. This course serves as the culminating experience for students and shows their engagement in independent learning.

Equipment Fee

Students in the Engineering Management MSEM program pay a \$90 equipment fee each semester that they are enrolled. For part-time students, the equipment fee is \$45 per semester.

Independent Learning

A research project serves as the independent learning experience for thesis students. Nonthesis students are required to complete the department's capstone course toward the end of their program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vita
- Goal statement
 - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed.
 - If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.
 - The goal statement should be between 500 and 1,000 words.
- Two letters of recommendation
 - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Engineering Management MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Mansooreh Mollaghasemi PhD

Associate Professor

mollagha@ucf.edu

Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Engineering Management MSEM, Professional Project and Systems Engineering Track ♦♦

College: Engineering and Computer Science	Degree: MS
Department: Industrial Engineering and Management Systems	Option: Nonthesis
Program Websites: http://www.iems.ucf.edu/graduate/programs	

Track Description

The Professional Project & Systems Engineering (PP&SE) Track is a cohort-based program that offers a customized and personalized approach to learning engineering management with a curriculum developed based upon the needs of industry. The PP&SE Track is designed to be a lock-step, cohort-based program that can be completed in 18 to 24 months. For information about the start of the next cohort, please contact the PP&SE Program Director Dr. Timothy Kotnour (timothy.kotnour@ucf.edu).

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Engineering-Management-MS.pdf>.

Curriculum

The PP&SE track in the Master of Science in Engineering Management (MSEM) program focuses on effective decision-making and successful project delivery of innovative solutions in engineering and technological organizations. The program is tailored to the needs of the experienced, working early and mid-career professionals.

The MSEM program requires an undergraduate degree in engineering or a closely related discipline. Students with undergraduate degrees outside of industrial engineering may be required to take additional prerequisite courses.

Research studies are required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in the profession in order to help students acquire knowledge and skills pertaining to research-based best practices.

Courses may be substituted or added to provide domain depth based upon the student or customer's needs.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Master Core Courses: 9 Credit Hours

- EIN 5140 - Project Engineering **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- EIN 6357 - Advanced Engineering Economic Analysis **3 Credit Hours**

Elective Courses: 27 Credit Hours

- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- EIN 6182 - Engineering Management **3 Credit Hours**
- EIN 6326 - Technology Strategy **3 Credit Hours**
- EIN 6370 - Innovation in Engineering Design **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 6511 - Systems Integration and Testing **3 Credit Hours**
- ESI 6552 - Systems Architecture **3 Credit Hours**

Comprehensive Examination

Students must successfully pass an oral comprehensive examination as part of a capstone exercise (usually in the form of EIN 6182 - Engineering Management) to satisfy all degree requirements. In some instances, industry might require students to participate in a capstone course to integrate the material in a specific project related to the industry sponsor's needs. Typically, this additional class is in the form of EIN 6950 - Industrial and Systems Engineering Capstone which is a 3-credit hour course. Please see the program director for cohort-specific details.

Equipment Fee

Students in the Engineering Management MSEM program pay a \$90 equipment fee each semester that they are enrolled. For part-time students, the equipment fee is \$45 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of the research studies required in individual courses, EIN 6182 - Engineering Management, and the capstone project, which requires that students integrate material from all the courses in their program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Engineering or a closely related discipline.
- A letter of recommendation from the corporate sponsor.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Professional Project & Systems Engineering Track, MSEM	*Fall Priority	Fall	Spring	Summer
Domestic Applicants				Apr 1
International Applicants				Nov 1
This is a Summer Cohort Program Only.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mansoor Mollaghasemi PhD
Associate Professor

mollagha@ucf.edu
Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

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English MA ►

College: Arts and Humanities	Degree: MA
Department: English	

Program Websites: http://english.cah.ucf.edu/
Graduate Program Handbook

Program Description

The Master of Arts in English program offers two tracks: Literary, Cultural, and Textual Studies, and Technical Communication. The program is designed for students interested in intellectual and practical questions of aesthetics, critique, culture, text, and interpretation.

Program Tracks

- English MA, Literary, Cultural, and Textual Studies Track
- English MA, Technical Communication Track ►

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Tracks may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Terry Ann Thaxton MFA

Professor

Terry.Thaxton@ucf.edu

Telephone: 407-823-2112
Trevor Colbourn Hall (TCH) 251

Ethan Watford

ethan.watford@ucf.edu
Telephone: 407-823-5329
Trevor Colbourn Hall (TCH) 251E

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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English MA, Literary, Cultural, and Textual Studies Track

College: Arts and Humanities	Degree: MA
Department: English	Option: Thesis, Nonthesis
Program Websites: https://english.cah.ucf.edu/graduate-ict/	
Graduate Program Handbook	

Track Description

The Literary, Cultural and Textual Studies track in the Master of Arts in English program prepares students for both academic and nonacademic careers.

The program encourages students to make connections among texts (critical, theoretical, scholarly, literary, etc.), to engage in research and critical thinking at an advanced level, and to write scholarship of merit and distinction.

Curriculum

Each student must complete at least 33 credit hours, including three core courses. Near the end of the degree program, each candidate must complete a Capstone Course and choose either the thesis option or the nonthesis option, which requires 3 additional credit hours of a 6000-level Literary, Cultural and Textual Studies course.

The program teaches research methods in one or more courses and requires a research study and final report focusing on literary criticism in a student's particular specialization.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

Core: 6 Credit Hours

- ENG 5009 - Methods of Bibliography and Research **3 Credit Hours**
- ENG 6078 - Contemporary Movements in Literary, Cultural, and Textual Theory **3 Credit Hours**

Capstone: 3 Credit Hours

Students must take a Capstone Course after completing at least 18 credit hours in the program. The Capstone Course is a systematic and comprehensive revision of previous graduate research, with special attention to the use of theory and to professionalization and with the goal of publication and/or conference presentation.

- ENG 6950 - Capstone Course **3 Credit Hours**

Foreign Language Proficiency

Students must also prove proficiency in a foreign language at the first-year level prior to completing the degree program.

Elective Courses: 21 Credit Hours

Restricted: 15 Credit Hours

Students must choose four of the following courses.

- ENG 6074 - Historical Movements in Literary, Cultural, and Textual Studies **3 Credit Hours**
- LIT 6216 - Issues in Literary Study **3 Credit Hours**
(can be taken four times for credit when course content is different)
- LIT 6936 - Studies in Literary, Cultural, and Textual Theory **3 Credit Hours**
(can be taken four times for credit when course content is different)
- LIT 6276 - Teaching College Literature **3 Credit Hours**
- LIN 5137 - Linguistics **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**

Unrestricted: 6 Credit Hours

In consultation with the graduate adviser, students will choose three graduate-level English courses.

Thesis Option: 3 Credit Hours

Students will complete a formal thesis on a topic selected in consultation with an advisory committee and will meet both departmental and university requirements for the thesis.

- LIT 6971 Thesis **3 Credit Hours**

Nonthesis Option: 3 Credit Hours

Students will complete 3 additional hours of 6000-level Literary, Cultural, and Textual Studies courses.

- Elective **3 Credit Hours**

Independent Learning

All courses in the Master's in English, Literary, Cultural and Textual Studies Track require students to complete substantial independent research projects and thus provide students the opportunity to engage in independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions , applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in English or its equivalent.
- Two letters of recommendation from faculty members or others familiar with applicant's academic potential.

- One year of a foreign language at the university level (may be taken while in graduate residence).
- A one to two-page goal statement providing a narrative of your educational progress and how a Master's degree fits into this trajectory. In other words, tell us where you have been, where you are, and where you wish to go.
- A researched literary analysis or equivalent essay of approximately ten pages, with an explanatory cover memo of no more than one page that explains why you chose to submit this particular academic essay and how you would revise if you had the opportunity. All statements and essays should be revised writing (i.e., not written under timed conditions). Writing should be "cleaned": typed, error-free, with no teacher comments. The essay should demonstrate an ability to follow a scholarly format such as MLA or APA.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- A résumé is required for applicants seeking assistantship positions.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Literary, Cultural, and Textual Studies	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Terry Ann Thaxton MFA

Professor

Terry.Thaxton@ucf.edu

Telephone: 407-823-2112

Trevor Colbourn Hall (TCH) 251

Ethan Watford

ethan.watford@ucf.edu

Telephone: 407-823-5329

Trevor Colbourn Hall (TCH) 251E

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

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Institution Codes

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English MA, Technical Communication Track ►

College: Arts and Humanities	Degree: MA
Department: English	Option: Thesis, Nonthesis
Program Websites: https://english.cah.ucf.edu/graduate-tech-comm/	
Graduate Program Handbook	

Track Description

The Technical Communication track in the Master of Arts in English program is completely online and provides students with theoretical and applied skills in such areas as technical writing, visual design, usability, ethics, stylistics, computer documentation, international communication, and the rhetoric of science.

Students in this program come from a variety of educational backgrounds such as Psychology, Computer Science, and English. The program's faculty members have won prestigious awards, are well published in the field, and have considerable experience in teaching online courses.

Our graduates hold a variety of jobs in the central Florida region; they have found work as technical writers, technical editors, information designers, web designers, corporate trainers, consultants, information developers, educators, documentation specialists, or have other communication-related jobs.

Please note: English (MA) - Technical Communication may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

Each student must complete at least 33 credit hours of coursework including 15 credit hours of required courses and 15 credit hours of elective courses. Near the end of the degree program, each candidate will write a comprehensive examination and complete a thesis option, a nonthesis option with a research project approved by the faculty, or a nonthesis option consisting of an additional 6000-level three-credit-hour Technical Communication course taught by the Department of English.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

- ENC 6297 - Production and Publication Methods **3 Credit Hours**
- ENC 6217 - Technical Editing **3 Credit Hours**
- ENC 6261 - Technical Writing, Theory and Practice **3 Credit Hours**
- ENG 5009 - Methods of Bibliography and Research **3 Credit Hours**
Choose one of the following:
- ENC 6338 - The Rhetorics of Public Debate **3 Credit Hours**
- LIT 6435 - Rhetoric of Science **3 Credit Hours**

Elective Courses—15 Credit Hours

Restricted—9 Credit Hours

- ENC 6257 - Visual Technical Communication **3 Credit Hours**
- ENC 6306 - Persuasive Writing **3 Credit Hours**
- ENC 6247 - Proposal Writing **3 Credit Hours**
- ENC 6292 - Project Management for Technical Writers. **3 Credit Hours**
- ENC 6296 - Interactive Design in Technical Communication **3 Credit Hours**
- ENC 6338 - The Rhetorics of Public Debate **3 Credit Hours**
- ENC 6425 - Hypertext Theory and Design **3 Credit Hours**
- ENC 6335 - Rhetorical Traditions **3 Credit Hours**
- LIN 5675 - English Grammar and Usage **3 Credit Hours**
- LIT 6435 - Rhetoric of Science **3 Credit Hours**

Unrestricted—6 Credit Hours

Students in consultation with the graduate adviser will choose two graduate-level English courses or approved courses from outside the department.

Thesis Option—3 Credit Hours

Students complete a formal thesis written in consultation with an advisory committee and will meet both departmental and university requirements for the thesis.

- ENC 6971 Thesis (3 credit hours)

Nonthesis Options—3 Credit Hours

Students will enroll in directed research and complete a research project approved by an advisory committee. This project will be on a topic in technical communication and in a format other than that of a traditional thesis.

- ENC 6918 Directed Research (3 credit hours)

Or, students will enroll in an additional 6000-level course in technical communication taught by the Department of English.

Comprehensive Examinations

The comprehensive examination is a written exam based on four of the core courses (excluding ENG 5009).

Independent Learning

Both the thesis and special project options of the Master's in English, Technical Communication Track require students to conduct original research and to produce a final paper detailing the subject, purpose, scope, methodology, and conclusions of the study, thus providing students the opportunity to engage in independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions , applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Two letters of recommendation from faculty members or others familiar with applicant's academic potential.
- One year of a foreign language at the university level (may be taken while in graduate residence).
- A one to two page goal statement addressing the applicant's reasons for pursuing graduate study in English.
- A professional writing sample of approximately ten pages (or an equivalent amount of web-based work), with a cover memo of no more than one page that explains why you chose to submit this particular sample.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

A résumé is required for applicants seeking assistantship positions.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Technical Communication	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

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Terry Ann Thaxton MFA

Professor

Terry.Thaxton@ucf.edu

Telephone: 407-823-2112

Trevor Colbourn Hall (TCH) 252G

Ethan Watford

ethan.watford@ucf.edu

Telephone: 407-823-5329

Trevor Colbourn Hall (TCH) 251E

Graduate Admissions

Jennifer Yuhás

gradadmissions@ucf.edu

Telephone: 407-823-2766

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English, Rhetoric and Composition MA

College: Arts and Humanities	Degree: MA
Department: Writing and Rhetoric	Option: Thesis, Non-thesis
Program Websites: https://writingandrhetoric.cah.ucf.edu/rhetoric-and-composition-ma/	
Graduate Program Handbook	

Program Description

The Rhetoric and Composition Master of Arts track prepares students for teaching college-level writing, for continuing to a PhD program in rhetoric and composition, and for working in public and professional situations that call for effective persuasion and communication.

The program prepares students to engage in technologically adept, theory-based writing research and pedagogy. The program emphasizes rhetorical, writing, and literacy traditions and theories, particularly as they relate to the teaching of writing. This degree is ideal preparation for teaching college-level writing, for continuing to a PhD program in rhetoric and composition, and for working in public and professional situations that call for effective persuasion and communication.

Upon completion of this program, students receive a Master of Arts in English diploma and their transcript shows both Master of Arts in English and Rhetoric and Composition track.

Curriculum

Each student must complete at least 33 credit hours, including 15 credit hours of required courses, 15 credit hours of elective courses, and 3 hours of thesis/non-thesis hours. Before beginning thesis/non-thesis hours, the student will develop and get approved an annotated bibliography related to their proposed thesis or non-thesis topic.

The program requires that students complete a thesis or non-thesis project approved by the graduate faculty that contributes to some aspect of rhetorical, writing, and/or literacy studies.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

- ENC 5703 - Composition Histories and Theories **3 Credit Hours**
- ENC 5920 - Colloquium in Rhetoric and Composition **3 Credit Hours**
- ENC 6335 - Rhetorical Traditions **3 Credit Hours**
- ENC 6712 - Studies in Literacy and Writing **3 Credit Hours**
- ENC 6720 - Research Methods in Rhetoric and Composition **3 Credit Hours**

Elective Courses—15 Credit Hours

Restricted—9 Credit Hours

- ENC 5237 - Writing for the Business Professional **3 Credit Hours**
- ENC 5276 - Theory and Practice of Tutoring Writing **3 Credit Hours**
- ENC 5337 - Rhetorical Theory **3 Credit Hours**
- ENC 5705 - Approaches to Teaching College Composition **3 Credit Hours** ¹
¹Note: Graduate Teaching Associates are required to enroll in this course before they become instructors of record.
- ENC 6421 - Digital Rhetorics **3 Credit Hours**
- ENC 6428 - Digital Literacies **3 Credit Hours**
- ENC 6245 - Teaching Professional Writing **3 Credit Hours**
- ENC 6247 - Proposal Writing **3 Credit Hours**
- ENC 6306 - Persuasive Writing **3 Credit Hours**
- ENC 6332 - Gendered Rhetoric **3 Credit Hours**
- ENC 6333 - Contemporary Rhetoric and Composition Theory **3 Credit Hours**
- ENC 6338 - The Rhetorics of Public Debate **3 Credit Hours**
- ENC 6339 - Rhetorical Movements **3 Credit Hours**
- ENC 6701 - Professional Writing Studies **3 Credit Hours**
- ENC 6740 - Topics in Rhetoric and Composition **3 Credit Hours** ²
²Note: This course may be used in the degree program a maximum of 2 times when course content is different.
- ENC 6945 - Community Literacy Practicum **3 Credit Hours**
- LIN 5137 - Linguistics **3 Credit Hours**
- LIN 5675 - English Grammar and Usage **3 Credit Hours**
- LIT 6435 - Rhetoric of Science **3 Credit Hours**

Unrestricted—6 Credit Hours

Students will work with an adviser to choose two other graduate-level Writing and Rhetoric courses or approved courses outside the department (e.g., English, Texts & Technology, History).

Thesis—3 Credit Hours

Students complete a formal thesis on a topic selected in consultation with an advisory committee and will meet both departmental and university requirements for the thesis.

- ENC 6971 - Thesis **3 Credit Hours**

Non-thesis—3 Credit Hours

Students complete either an essay intended for publication or a portfolio representative of their work in the program.

- ENC 6918 - Directed Research **3 Credit Hours**

Annotated Bibliography

The annotated bibliography should consist of at least 15 sources relevant to the student's thesis. It must be completed before the thesis and approved by the program director in consultation with the student's planned advisory committee. Annotations should indicate how the student might use the sources in the thesis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in English, Rhetoric, and Composition, Writing Studies, Communication Studies, or related discipline. Or a completed bachelors degree with substantial coursework in one of the aforementioned areas.
- Two letters of recommendation from faculty members or others familiar with applicant's academic potential.
- One year of a foreign language at the university level (may be taken while in graduate residence).
- A one to two-page goal statement addressing the applicant's reasons for pursuing graduate study in Rhetoric and Composition.
- A writing sample that demonstrates an ability to analyze and argue, approximately ten pages. Writing should be "clean": typed, error-free, with no teacher comments. The academic essay should demonstrate an ability to follow a scholarly documentation format such as MLA or APA.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- A résumé or cv is required for applicants seeking assistantship positions.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course

evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

English MA, Rhetoric and Composition	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1	Dec 1	
International Applicants	Jan 15	Jan 1	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Sherry Rankins-Robertson, PhD

Sherry.Robertson@ucf.edu

Telephone: 407-823-2295

Trevor Colbourn Hall (TCH) 165H

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
 graduate.ucf.edu/funding/

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
 http://finaid.ucf.edu

Environmental Engineering MS

College: Engineering and Computer Science	Degree: MS
Department: Civil, Environmental, and Construction Engineering	Option: Thesis
Program Websites: http://www.cece.ucf.edu/graduate/	
Graduate Program Handbook	

Program Description

The Master of Science in Environmental Engineering program is for students with science, math, or a similar background, and usually requires a number of undergraduate engineering courses as articulation to become fully prepared for graduate work in environmental engineering.

Applicants to the program are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, community noise abatement, and stormwater management. The program's overall mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

The program's overall mission is to prepare students for Environmental Engineering careers in federal, state, and local governments; higher education; consulting; and industry.

Other key objectives include:

- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MS.pdf>.

Program Tracks

- Environmental Engineering MS, Environmental Engineering Sciences Track ►

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Those applying to the programs without a directly related undergraduate degree should closely check the prerequisites. For students with nontechnical undergraduate degrees, it is recommended that a second undergraduate degree in Environmental Engineering be completed before applying to graduate school.

Final articulation requirements will be determined by the department after students have been admitted and after discussions with their advisers.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Andrew Randall PhD PE

Professor

andrew.randall@ucf.edu

Telephone: 407-823-6429

Engineering II, 211-L

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-5692

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes
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Environmental Engineering MS, Environmental Engineering Sciences Track ►

College: Engineering and Computer Science	Degree: MS
Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.cece.ucf.edu/graduate/	
Graduate Program Handbook	

Track Description

The Environmental Engineering Sciences track in the Environmental Engineering MS program is for students with science, math, or a similar background, and usually requires a number of undergraduate engineering courses as articulation to become fully prepared for graduate work in environmental engineering.

Applicants to the program are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program's overall mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

Other key objectives include:

- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MS.pdf>.

Please Note: Environmental Engineering MS may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

The Environmental Engineering Sciences track offers both thesis and nonthesis options with each requiring 30 credit hours of courses beyond the baccalaureate degree. Students choosing the thesis option must take 12 credit hours of required courses, 12 credit hours of electives, and 6 thesis credit hours. Students choosing the nonthesis option must take 12 credit hours of required courses, 18 credit hours of electives, and submit an end-of-program portfolio. Students develop an individualized program of study with a faculty adviser.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

At least 24 credit hours of the course work must be exclusive of thesis and research, and Directed Research (XXX 6918) is not permitted in MS program of study.

The thesis option is primarily for students who can devote a full-time effort to their research and is required for all students supported on contracts and grants, as well as any student receiving department financial support. The nonthesis option is strongly recommended for part-time students and requires an end-of-program portfolio as a requirement for graduation.

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession. They are intended to help students acquire knowledge and skills pertaining to best practices in that specialization area.

Prerequisites (Articulation)

The completion of prerequisite courses may be required before students can begin the program graduate coursework.

The following mathematics prerequisite requirement is for all students.

- Calculus through Differential Equations

The following prerequisites (or equivalent courses) may be required for students with appropriate science or math undergraduate degrees.

- ENV 3001 - Introduction to Environmental Engineering **3 Credit Hours**
- CWR 3201 - Engineering Fluid Mechanics **3 Credit Hours**
- STA 3032 - Probability and Statistics for Engineers **3 Credit Hours**
- CWR 4202 - Hydraulics **3 Credit Hours**
- CWR 4120 - Hydrology **3 Credit Hours**
- EES 4111C - Biological Process Control **4 Credit Hours**
- EES 4202C - Chemical Process Control **4 Credit Hours**
- EGN 3613 - Engineering Economic Analysis **2 Credit Hours**
- ENV 4120 - Air Pollution Control **3 Credit Hours**
- ENV 4531 - Environmental Engineering Operations and Processes I **3 Credit Hours**

Required Courses—12 Credit Hours

Students must choose one course from each group.

Biological Waste Treatment

- ENV 6016 - Biological Treatment Systems in Environmental Engineering **3 Credit Hours**

*

Chemical Waste Treatment

- ENV 6015 - Physical/Chemical Treatment Systems in Environmental Engineering **3 Credit Hours**

Environmental/Water Quality

- ENV 6519 - Aquatic Chemical Processes **3 Credit Hours**
- ENV 6616 - Ecological Engineering and Receiving Water Impacts **3 Credit Hours**
- ENV 5410 - Water Treatment **3 Credit Hours**
- EES 5318 - Industrial Ecology **3 Credit Hours**
- ENV 6558 - Industrial Waste Treatment **3 Credit Hours**

Civil Water Resources

- Any CWR course at the 5000 or 6000 level **3 Credit Hours**. See course listings in the drop-down catalog menu above.

Note: Courses with an asterisk (*) provide independent learning experiences. Nonthesis students are required to take at least one course with an asterisk. This criteria is fulfilled by taking the required ENV 6016 - Biological Treatment Systems in Environmental Engineering - 3 Credit Hours* course.

It is also met by the elective courses:

- ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling **3 Credit Hours** *
- ENV 6126 - Design of Air Pollution Controls **3 Credit Hours** *

Elective Courses—12 Credit Hours

All students, both thesis and nonthesis, must take 12 credit hours of elective courses. The electives should be chosen from courses with ENV or CWR prefixes although other appropriate graduate-level courses (5000 or 6000) may be allowed. All electives must be chosen with the consent of the student's adviser.

- Electives **12 Credit Hours**

Thesis Option—6 Credit Hours

The thesis option requires that students conduct an approved research study, write and successfully defend a thesis.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- XXX 6971 - Thesis **6 Credit Hours**

Nonthesis Option—6 Credit Hours

The nonthesis option requires 6 more credit hours of electives in addition to the 12 credit hours of electives described above.

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Equipment Fee

Students in the Environmental Engineering MS program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their graduate program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Those applying to the programs without a directly related undergraduate degree should closely check the prerequisites. For students with nontechnical undergraduate degrees, it is recommended that a second undergraduate degree in Environmental Engineering be completed before applying to graduate school.

Articulation requirements will be determined by the department as part of the admission process and may be modified after discussion with the student and the advisor.

Application Deadlines

Environmental Engineering Sciences	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Ana Lucia Salas

Graduate Student Services Coordinator
 Ana.Salas@ucf.edu
 Telephone: 407-823-1299
 Engineering II, 211

Andrew Randall PhD PE

Professor
 andrew.randall@ucf.edu
 Telephone: 407-823-6429
 Engineering II, 211-L

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
 Telephone: 407-823-5692

Millican Hall 230
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Environmental Engineering MSEnvE ►

College: Engineering and Computer Science	Degree: MSEE
Department: Civil, Environmental, and Construction Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.cece.ucf.edu/graduate/	
Graduate Program Handbook	

Program Description

The Master of Science in Environmental Engineering program was created for students who have an undergraduate degree in environmental engineering or any other closely related degree in engineering. Applicants are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program's overall mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

The program's overall mission is to prepare students for Environmental Engineering careers in federal, state, and local governments; higher education; consulting; and industry. Other key objectives include:

- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MSVE.pdf>.

Please Note: Environmental Engineering MSEnvE may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

The Environmental Engineering MSEnvE program offers both thesis and nonthesis options with each requiring 30 credit hours of courses beyond the bachelor's degree. Prerequisites are required depending upon the discipline of a student's bachelor's degree. The thesis option is primarily for those who can devote a full-time effort to their research project and is required for all students supported by contracts and grants, as well as any student receiving department financial support. The nonthesis option is recommended strongly for part-time students and requires submission of an end-of-program portfolio as a requirement for graduation.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Students choosing the thesis option must take 12 credit hours of required credit hours of electives, and 6 thesis credit hours. Students choosing the nonthesis option must take 12 credit hours of required courses, 18 credit hours of electives, and submit a portfolio (which includes a comprehensive final examination) before graduating.

Students develop an individualized program of study with a faculty adviser. At least 24 credit hours in the program of study must be earned exclusive of thesis and research courses and Directed Research (XXX 6918) is not permitted in the MSEnvE program of study.

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to best practices in that specialization area.

Prerequisites (Articulation)

The completion of prerequisite courses may be required before students can begin program course work. Please contact the program director to review your background and determine the prerequisites that you may need to take.

The following mathematics prerequisite requirement is for all students.

- Calculus through Differential Equations

The following prerequisites may be required for students with undergraduate degrees in Civil, Mechanical, or Chemical Engineering. Equivalent courses may be acceptable.

- ENV 3001 Introduction to Environmental Engineering **3 Credit Hours**
- STA 3032 Probability and Statistics for Engineers **4 Credit Hours**
- CWR 4202 Hydraulics **3 Credit Hours**
- ENV 4120 Air Pollution Control **3 Credit Hours**
- ENV 4531 Environmental Engineering Operations and Processes I **3 Credit Hours**

The following prerequisites may be required for students with undergraduate degrees in other Engineering disciplines.

- ENV 3001 Introduction to Environmental Engineering **3 Credit Hours**
- STA 3032 Probability and Statistics for Engineers **3 Credit Hours**
- CWR 4202 Hydraulics **3 Credit Hours**
- CWR 4120 Hydrology **3 Credit Hours**
- EES 4111C Biological Process Control **3 Credit Hours**
- EES 4202C Chemical Process Control **3 Credit Hours**
- ENV 4120 Air Pollution Control **3 Credit Hours**
- ENV 4531 Environmental Engineering and Processes I **3 Credit Hours**

Required Courses: 12 Credit Hours

All students are required to take the following two courses and then choose one course from each of the two groupings below.

- ENV 6015 - Physical/Chemical Treatment Systems in Environmental Engineering **3 Credit Hours**
- ENV 6016 - Biological Treatment Systems in Environmental Engineering **3 Credit Hours** *

Waste Treatment/ Water Treatment/ Industrial Waste Treatment

- ENV 6558 - Industrial Waste Treatment **3 Credit Hours**
- ENV 5410 - Water Treatment **3 Credit Hours**
- EES 5318 - Industrial Ecology **3 Credit Hours**

Water Resources

- Any CWR course at the 5000 or 6000 level **3 Credit Hours**

Note:

Courses with an asterisk (*) provide an independent learning experience for students, consisting of a research or design project. Nonthesis students are required to take at least one of the courses with an asterisk. This requirement is fulfilled in the required course ENV 6016 above and is also fulfilled by the elective course ENV 6126 Design of Air Pollution Controls* (3 credit hours) and the elective course ENV 6106 Theory and Practice of Atmospheric Dispersion Modeling (3 credit hours).

Elective Courses: 12 Credit Hours

All students, both thesis and nonthesis, are required to take 12 credit hours of elective courses. Courses that comprise the elective part of the program are selected in accordance with the general requirements of the College of Engineering and Computer Science and often include courses taken from the following two sub-discipline areas:

- Environmental Specialization—Any of the appropriate ENV graduate-level courses (5000 or 6000) with the consent of the student's adviser
- Water Resources Specialization—Any of the appropriate CWR graduate-level courses (5000 or 6000) with the consent of the student's adviser

Thesis Option: 6 Credit Hours

Thesis students are expected to complete an independent research project and then write and successfully defend their thesis.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the Events Calendar and on the College of Graduate Studies website at least two weeks before the defense date.

- XXX 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Nonthesis students must take 6 more credit hours of electives in addition to the 12 credit hours of electives described above.

- Electives **6 Credit Hours**

Portfolio Requirement

Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Equipment Fee

Students in the Environmental Engineering MSEnvE program pay a \$16 equipment fee each semester that they are enrolled. Part-time students pay \$8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and submit an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admissions decisions are made on the basis of a complete online application only, and not on the basis of any pre-screening. Prospective applicants who are encouraged to apply to their intended graduate program based on the information provided for their pre-screening are not assured of admission or financial assistance when they submit a complete online application. Although it is possible, it is not likely, that prospective applicants who are discouraged from formally applying to a graduate program at the pre-screening stage will be admitted if they elect to submit a complete online application anyway.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research programs.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Those applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Students with nontechnical undergraduate degrees are recommended to complete a second undergraduate degree in Environmental Engineering before applying to graduate school.

Final articulation requirements will be determined by the department after students have been admitted and after discussions with their advisers.

Application Deadlines

Environmental Engineering MSEnvE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Andrew Randall PhD PE
 Professor
 andrew.randall@ucf.edu
 Telephone: 407-823-6429
 Engineering II, 211-L

Graduate Admissions

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finaid@ucf.edu
<http://finaid.ucf.edu>

Exceptional Student Education K-12 MA

College: Community Innovation and Education	Degree: MA
Department: School of Teacher Education	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/teachered/exceptional-student-education/	
Graduate Program Handbook	

Program Description

The Master of Arts in Exceptional Student Education K-12 program is for non-education majors or previously certified teachers in another content area.

Graduates must be eligible for certification by the successful completion of the degree program in the area of exceptional student education (ESE) and must pass the Florida certification exams. Graduates will also receive Reading and ESOL endorsements upon successful completion of the program, if not currently endorsed. For additional information, contact eseegrad@ucf.edu.

This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates. Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Passing scores on ALL three applicable sections of the Florida Teacher Certification Examination (FTCE) are required prior to graduation. See www.fldoe.org for available test dates, test sites, and possible score conversions. The exams include:

- FTCE General Knowledge Test (GKT) (GRE *may* be used per DOE guidelines)
- FTCE Professional Education Test (P.Ed.)
- FTCE Subject Area Exam for Exceptional Student Education K-12

The Exceptional Student Education K-12 MA program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Exceptional-Student-Ed-MA.pdf>.

Curriculum

The Master of Arts (MA) in Exceptional Student Education K-12 program requires a minimum of 39 credit hours beyond the bachelor's degree including 9 credit hours of required core courses, 21 credit hours of specialization courses, and 9 credit hours of Internship and Reading Practicum. Individual learning projects, including research skills and action research, are embedded in the specialization courses and completed in authentic settings. In addition, a culminating Comprehensive Exam will be completed to demonstrate mastery of research, knowledge, skills, and dispositions of standards from accrediting educational agencies. Students entering the MA program without prior related courses and/or appropriate teacher certifications may need to complete courses in the MA Foundation Core/Co-requisite area as prescribed by Florida State Statutes for initial teacher preparation (ITP).

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <https://ccie.ucf.edu/explore-via/>.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Foundation Core/Co-requisites

These foundation core/co-requisite courses are prescribed by Florida State Statutes for initial teacher preparation (ITP). Students entering the Exceptional Student Education MA program without prior related courses and/or appropriate teacher certifications may need to complete courses in the Foundation Core/Co-requisite area.

If a student has successfully completed equivalent courses in the Foundation Core/Co-requisite area, as prescribed by Florida State Statutes for initial teacher preparation, then course waivers can be requested (see adviser).

- EEX 5051 - Exceptional Children in the Schools **3 Credit Hours** Students are strongly advised to enroll in EEX 5051 early in their graduate program.
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours** Please note that RED 5517 is currently not available online.

Required Courses: 30 Credit Hours

Core: 9 Credit Hours

TSL 5085 and TSL 6250 are required courses leading to ESOL endorsement. Students should see an adviser if they hold a current ESOL endorsement.

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**

Specialization: 21 Credit Hours

- EEX 6061 - Instructional Strategies Pre-K-6 **3 Credit Hours**
- EEX 6065 - Programming for Students with Disabilities at the Secondary Level **3 Credit Hours**
- EEX 6107 - Teaching Spoken and Written Language **3 Credit Hours**
- EEX 6295 - Assessment and Curriculum Prescriptions for the Exceptional Population **3 Credit Hours**
- EEX 6524 - Organization and Collaboration in Special Ed **3 Credit Hours**
- EEX 6612 - Methods of Behavioral Management **3 Credit Hours**
- EEX 6342 - Seminar-Critical Issues in Special Education **3 Credit Hours**

Internship and Practicum: 9 Credit Hours

- EEX 6946 Graduate Internship: ESE **6 Credit Hours**
- RED 5948 - Practicum in Reading Assessment and Instruction **3 Credit Hours**

Additional Graduation Requirements

- Pass all applicable sections of the Florida Teacher Certification Examination. See <http://www.fl.nesinc.com/> or www.fldoe.org for additional information about test dates and resources.
- Pass Comprehensive Exam.
- Complete a LiveText Professional Portfolio.
- Complete a TESOL Portfolio.
- Compliance with all university and graduate student policies.

NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

Independent Learning

The Exceptional Student Education K-12 MA program requires the completion of an Action Research Project, Internship, and Reading Practicum. These independent learning activities take place in authentic settings where students must apply, reflect upon and refine their knowledge, skills and dispositions acquired in the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A copy of current ESOL endorsement, IF applicable.
- A copy of current Reading Endorsement, IF applicable.
- A copy of current professional teaching certificate, IF applicable.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) **OR** a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- **UPDATE:** In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted on or after **July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT SUBTEST	GRE SUBTEST	MINIMUM GRE SCORE REQUIRED TO SUBSTITUTE FOR GK SUBTEST
GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151
GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Students may not switch from an MA program to an MEd program, or vice versa, without going through the university's admission process.

Application Deadlines

Exceptional Student Education K-12 MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mary Little PhD

Professor

mary.little@ucf.edu

Telephone: 407-823-3275

ED 315J

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Exceptional Student Education MEd ►

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/exceptional-student-education/	
Graduate Program Handbook	

Program Description

The MEd in Exceptional Student Education program prepares exceptional education teachers to work in programs serving Pre-K-12 students with disabilities.

The program is designed for teachers already certified in exceptional student education (or other certification in special education) to enhance their knowledge, skills, and dispositions.

Please note: Exceptional Student Education (MEd) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Master of Education (M.Ed.) in Exceptional Student Education program is designed for teachers already certified in exceptional student education to enhance their knowledge, skills and dispositions. It requires 33 credit hours beyond the bachelor's degree including a 3-credit-hour research course, 24 credit hours of specialization courses and 6 credit hours of either a thesis or electives approved by an adviser. A Comprehensive Examination is also required and serves as the culminating experience in the program. Individual Learning Projects, including research skills and action research in authentic settings, are embedded in the specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Course: 3 Credit Hours

Students are strongly encouraged to enroll in this course early in their graduate program.

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**

Specialization Courses: 24 Credit Hours

The following courses are specialization courses. Please see your adviser for guidance regarding the selection of the courses.

*EEX 6061 recommended to be completed successfully prior to enrollment in EEX 6107.

**EEX 6107 may be taken only AFTER 18 hours of graduate coursework in Exceptional Student Education have been completed successfully.

- EEX 6061 - Instructional Strategies Pre-K-6 **3 Credit Hours** *
- EEX 6065 - Programming for Students with Disabilities at the Secondary Level **3 Credit Hours**
- EEX 6107 - Teaching Spoken and Written Language **3 Credit Hours** **
- EEX 6295 - Assessment and Curriculum Prescriptions for the Exceptional Population **3 Credit Hours**
- EEX 6342 - Seminar-Critical Issues in Special Education **3 Credit Hours**
- EEX 6524 - Organization and Collaboration in Special Ed **3 Credit Hours**
- EEX 6612 - Methods of Behavioral Management **3 Credit Hours**
- EEX 6863 - Supervised Teaching Practicum with Exceptional Children **2-7 Credit Hours** (for completion of the Severe and Profound Endorsement ONLY) or elective approved by an adviser (3 credit hours)

Thesis Option: 6 Credit Hours

- EEX 6971 Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Nonthesis students choose one of the following options:

- EEX 6909 Research Report **6 Credit Hours** or
- Two additional electives approved by an adviser **6 Credit Hours**

Suggested areas of concentration may be taken as approved electives within the M.Ed. program. Please see complete listings of additional courses in Certificate/Endorsement Programs in Exceptional Student Education for possible electives (Autism Spectrum Disorder, Intervention Specialist, Pre-K Disabilities, Severe and Profound, and Special Education). Electives must be approved by an adviser.

Comprehensive Examination

The culminating Comprehensive Examination must be successfully completed to demonstrate mastery of research, skills, knowledge and dispositions of standards from accrediting educational agencies prior to graduation.

Independent Learning

The MEd program may require a Supervised Teaching Practicum as an elective that is part of the Severe and Profound certificate. Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on and refine knowledge and skills acquired in the program. Please see your adviser for further information.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

One official transcript (in a sealed envelope) from each college/university attended.

Current Florida Professional Teaching Certificate in Exceptional Student Education or have completed all the requirements for that Professional Teaching Certificate.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the M.Ed. program with approvals from appropriate College and Department committees and advisors.

Students may not switch from an M.A. program to an M.Ed. program, or vice versa, without going through the university's admission process. Courses used to gain initial state certification may not be transferred into an M.Ed. program.

Application Deadlines

Exceptional Student Education MEd	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mary Little PhD

Professor

mary.little@ucf.edu

Telephone: 407-823-3275

ED 315J

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

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Grad Fellowships

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UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Forensic Science MS ►

College: Sciences	Degree: MS
Department: Chemistry	Option: Thesis, Nonthesis
Program Websites: http://chemistry.cos.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Forensic Science program is designed to service the needs of both practicing professionals and full-time students who desire an advanced program of study in forensic science. The program is comprised of three concentrations: Forensic Analysis, Forensic Biochemistry and Forensic Professional.

The Master of Science in Forensic Science program is designed to service the needs of both practicing professionals and full-time students who desire an advanced program of study in forensic science. The program is comprised of three concentrations: Forensic Analysis, Forensic Biochemistry and Forensic Professional. The Forensic Biochemistry and Forensic Analysis concentrations require the student to perform original research and defend a written thesis. The

Forensic Professional concentration is a nonthesis option comprised of course work and an independent study capstone project.

Forensic Science is a highly interdisciplinary science, as reflected in the following programs of study. The interdisciplinary nature of the program makes it imperative that students seek advising from faculty members on the appropriateness of this program towards their future career as well as the content of courses to ensure that they have the appropriate background to master the course content.

Thesis Options

The grounding in scientific research methodology provided by the thesis requirement is a central focus of the thesis-based concentrations. The Forensic Analysis and Biochemistry concentrations are comprised of 32 credit hours of study beyond the BS degree. Students will conduct research either on site or at the professional laboratories where they work. In either case, a member of the UCF Forensic Science faculty will act as research adviser and approve the research topic. This research culminates in the writing and presentation of the thesis.

The student's research adviser will select the thesis examination committee, consisting of two UCF faculty members and at least one other acknowledged forensic expert in the field. The student will present his/her thesis for examination by the committee. The thesis must be judged worthy of publication by the review committee and may not be submitted for examination until approved. For students choosing to conduct research at non-UCF sites, the thesis adviser may visit the student's laboratory where the research is to be performed, before the research begins and on a regular basis until the work is complete.

Forensic Analysis Concentration: The Forensic Analysis concentration emphasizes the application of modern chromatographic, spectroscopic and micro-analytical techniques to problems in forensic science. This specialized program option is not designed for international applicants.

Forensic Biochemistry Concentration: The Forensic Biochemistry concentration has a strong biochemistry-DNA focus to serve the needs of supervisory personnel in DNA sections of crime laboratories. National DNA standards mandate that such personnel have advanced degrees. This specialized program option is not designed for international applicants.

Nonthesis Option

The nonthesis concentration is specifically designed for the forensic analyst who currently holds employment in an operational forensic laboratory or has previously worked for a minimum of three years in an operational forensic laboratory. Applicants who do not meet these criteria must apply for one of the thesis-based concentrations. International applicants should apply for the Forensic Professional Concentration.

Forensic Professional Concentration: The Forensic Professional concentration is comprised of 34 credit hours of study beyond the bachelor of science degree but does not require an original laboratory-based research project. The Forensic Professional concentration culminates in a one-credit-hour independent study capstone project performed under the direction of one of the faculty members in the program.

Please note: Forensic Science (MS) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Forensic Science MS degree is comprised of 32 or 34 credit hours of study beyond the BS degree with an intensive specialization in one of three concentrations: Forensic Analysis, Forensic Biochemistry or Forensic Professional. Full-time students should complete the degree in two years of continuous full-time study, while part-time students will generally finish the degree in four years.

The program in Forensic Analysis and Forensic Biochemistry is research-based and requires original and independent research resulting in a written thesis to be defended before a committee consisting of two UCF graduate faculty members and at least one other acknowledged forensic expert in the field. These concentrations require 32 credit hours, including 9 credit hours of required courses, 15 credit hours of concentration courses, and 8 credit hours of Thesis.

The program in Forensic Professional requires 34 credit hours, including 9 hours of required courses and 24 hours of elective courses and one credit hour of independent study as the capstone experience. This concentration does not require an original laboratory-based research project. Students not in residence at UCF should consult the catalog for courses with online offerings.

Students with undergraduate degrees in chemistry, biochemistry, biology, forensic science, statistics and physics are encouraged to apply. Students applying to this program with a forensic science undergraduate degree, please be aware that this program is designed for students interested in pursuing a career in forensic chemistry, forensic biology, forensic biochemistry applications.

Students interested in pursuing careers in any of the following forensic disciplines should apply to a more appropriate program:

- Forensic Psychology, you should apply to a graduate Psychology program.
- Forensic Anthropology, you should apply to a graduate Anthropology program.
- Crime Scene Investigation, you should apply to a graduate Criminal Justice program.
- Forensic Pathology or Medical Examination, you should apply to a medical school.
- Forensic Engineering, you should apply to a graduate Engineering program.

Total Credit Hours Required: 32-34 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

Students in all three concentrations take the following required courses and complete either the thesis option or the nonthesis option.

- CHS 5504 - Topics in Forensic Science **3 Credit Hours**
- CHS 5596 - The Forensic Expert in the Courtroom **3 Credit Hours**
- CHS 6513 - Quality Assurance for Forensic Scientists **3 Credit Hours**

Thesis Option: 23 Credit Hours

Forensic Analysis Concentration: 15 Credit Hours

Students in the Forensic Analysis concentration take 15 credit hours from the following courses and complete a thesis.

- STA 5206 - Statistical Analysis **3 Credit Hours** or equivalent course
- CHM 5235 - Applied Molecular Spectroscopy **3 Credit Hours**
- CHM 6492 - Atomic Spectroscopy **3 Credit Hours**
- CHS 6546 - Forensic Analysis of Ignitable Liquids **3 Credit Hours**
- CHS 6545 - Forensic Analysis of Explosives **3 Credit Hours**
- CHS 5937 Chemometric Applications in Forensic Science **3 Credit Hours**

Forensic Biochemistry Concentration: 15 Credit Hours

Students in the Forensic Biochemistry concentration take the following courses and complete a thesis.

- STA 5206 - Statistical Analysis **3 Credit Hours** or equivalent course
- CHS 6535L - Forensic Analysis of Biological Materials **3 Credit Hours**
- CHS 6535 - Forensic Molecular Biology **3 Credit Hours**
- CHS 6536 - Population Genetics and Genetic Data **3 Credit Hours**
- BCH 6740 - Advanced Biochemistry **3 Credit Hours**

Thesis: 8 Credit Hours

The Forensic Analysis and Forensic Biochemistry concentrations require the student to conduct original research and successfully defend a written thesis.

- CHS 6971 Thesis **8 Credit Hours**

Nonthesis Option: 25 Credit Hours

Forensic Professional Concentration: 24 Credit Hours

Students in the Forensic Professional concentration are required to take 24 credit hours selected from the list below with approval of their faculty adviser and complete the Capstone course.

- STA 5206 - Statistical Analysis **3 Credit Hours**
- CHM 5235 - Applied Molecular Spectroscopy **3 Credit Hours**
- CHM 6492 - Atomic Spectroscopy **3 Credit Hours**
- CHS 6546 - Forensic Analysis of Ignitable Liquids **3 Credit Hours**
- CHS 6545 - Forensic Analysis of Explosives **3 Credit Hours**
- CHS 6535L - Forensic Analysis of Biological Materials **3 Credit Hours**
- CHS 6535 - Forensic Molecular Biology **3 Credit Hours**
- CHS 6536 - Population Genetics and Genetic Data **3 Credit Hours**
- BCH 6740 - Advanced Biochemistry **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**
- CHS 5518 - The Forensic Collection and Examination of Digital Evidence **3 Credit Hours**
- CIS 6207 - The Practice of Digital Forensics **3 Credit Hours**
- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CHS 5937 - Chemometric Applications in Forensic Science **3 Credit Hours**
- CHM 6710 - Applied Analytical Chemistry **3 Credit Hours**
- CHM 6440 - Kinetics and Catalysis **3 Credit Hours**

- CHS 6251 - Applied Organic Synthesis **3 Credit Hours**
- CHS 6240 - Chemical Thermodynamics **3 Credit Hours**
- BCH 6740 - Advanced Biochemistry **3 Credit Hours**
- CHM 6134 - Advanced Instrumental Analysis **3 Credit Hours**
- CHM 6938 - Special Topics **3 Credit Hours**

Capstone: 1 Credit Hour

The capstone experience in the Forensic Professional concentration requires one credit hour of Independent Study, which culminates in the submission of a required report on a pre-approved topic. This study will comprise either (1) a review of the current literature on a particular forensic science research topic area, or (2) a holistic case study dealing with a particular criminal case in which forensic evidence played a significant role.

- CHS 6908 - Independent Study **1 Credit Hour**

Equipment Fee

Full-time students in the Forensic Science MS program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

Students in the Forensic Analysis and Forensic Biochemistry concentrations are required to conduct original research and defend a written thesis. Students in the Forensic Professional concentration complete a capstone experience that requires independent research and a report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A bachelor's in Forensic Science or another physical science, based on at least 30 hours of college-level science subjects, that provides the background required to be successful in the proposed program. Acceptable non-Forensic Science BS degrees may include Chemistry, Molecular Biology, Physics and Statistics.
- Three letters of recommendation. If the applicant is employed in a forensic laboratory and wishes to continue working in that laboratory while a distance learner in the Forensic Science MS program, one letter should come from his/her supervisor and should express their willingness to allow the student to use the laboratory instrumentation for their thesis research. Otherwise, the student will be unable to complete the research component of the degree.
- Short (one page) statement describing why the applicant wants to pursue an advanced degree in Forensic Science.

The Forensic Science Graduate Committee will evaluate the background of potential students applying for admission into the program.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Forensic Science MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Mar 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Candice Bridge PhD

Professor

cbridge@ucf.edu

Telephone: 407-823-2120

Chemistry 328

Michelle Salcedo Prieto

Graduate Program Assistant

michelle.salcedo@ucf.edu

Telephone: 407-823-5728

PSB 236

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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finaid@ucf.edu
<http://finaid.ucf.edu>

Health Administration MHA

College: Community Innovation and Education	Degree: MHA
Department: Health Management and Informatics	
Program Website: https://ccie.ucf.edu/hmi/programs/health-administration-ma/	

Program Description

The Master of Health Administration offers two tracks: Health Services Administration and the Executive Health Services Administration.

The track in Health Services Administration is a traditional program with courses offered in mixed-mode format and the Executive Health Services Administration is geared towards professionals with at least three years of Health Management experience and is offered fully online.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Program Tracks

- Health Administration MHA, Executive Health Services Administration Track
- Health Administration MHA, Health Services Administration Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kourtney Nieves PhD

kourtney.nieves@ucf.edu

Telephone: 407-823-3264

UCF Downtown- DPAC 404B

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Health Administration MHA, Executive Health Services Administration Track

College: Community Innovation and Education	Degree: MHA
Department: School of Global Health Management and Informatics	Option: Nonthesis
Program Website: https://ccie.ucf.edu/hmi/programs/health-administration-ma/	

Track Description

The School of Global Health Management and Informatics offers a CAHME accredited Executive Master of Health Administration (Executive MHA). This program is 44 credit hours beyond the bachelor's degree and is designed for self-motivated, experienced health services professionals with a minimum of three years of relevant professional experience, including managers, mid-career professionals, and clinicians.

Health care is America's fastest growing service industry. The Master of Health Administration focuses on the structure of health care organizations and examines important issues that impact the health care industry. The Executive MHA (eMHA) track is attractive to working health care professionals due to the online delivery format, which allows students to earn an Executive MHA degree from any location and at times convenient to each student. Throughout the program, students enhance their leadership skills. Learn from leading experts and academics in the field of health administration.

Students admitted into this program must possess a minimum of three years of relevant health care and/or management experience. Students enroll in the program as a cohort with a maximum of 30 students. The cohort model provides faculty the opportunity to discuss issues in greater detail and allows students the ability to network among their peers. The program will be delivered in an online format.

Please note: Executive Health Services Administration may be completed fully online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Executive Master of Health Administration track requires a minimum of 44 credit hours beyond the bachelor's degree. Students must pass the capstone course at the end of their studies as part of Capstone in the Executive MHA (HSA 6188) program requirement.

This program is completely online with a course sequence that is lock-step and students must follow the required sequence of coursework.

Total Credit Hours Required: 44 Credit Hours Minimum beyond the Bachelor's Degree

The term each course is offered is indicated in the course listing below.

Required Courses: 44 Credit Hours

Core: 40 Credit Hours

- HSA 6766 - Health Care Statistics and Research **4 Credit Hours**
- HSA 6345 - Leadership for Health Care Executives **4 Credit Hours**
- HSA 6179 - Financial Accounting for Health Care Managers **4 Credit Hours**
- HSA 6346 - Health Care Organizational Behavior and Human Resource Management **4 Credit Hours**
- HSA 6505 - Health Care Quality and Risk Management **4 Credit Hours**
- HSA 6178 - Financial Management for Health Care Managers **4 Credit Hours**
- HSA 6197C - Health Care Informatics for Health Care Leaders **4 Credit Hours**
- HSA 6156 - Health Care Economics and Policy **4 Credit Hours**
- HSA 6520 - Epidemiology and Health Planning **4 Credit Hours**
- HSA 6555 - Health Care Ethics and Law **4 Credit Hours**

Capstone: 4 Credit Hours

A final written examination experience is required of all students in the program. This requirement will be met through successful completion of the capstone course (HSA 6188). To successfully pass this course, students must earn a grade of "A" or "B." There is one exception: students who earn no other "C" grades while in the Executive MHA program will be permitted to pass this course with a grade of "C."

- HSA 6188 - Health Care Capstone and Strategic Management **4 Credit Hours** *Offered second Summer and Fall*

Cost Per Credit Hour

For the Executive Master of Health Administration program, the cost per credit hour is \$772.69.*

*Fee is subject to change

Additional Program Requirements

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Additionally, a student may apply a maximum total of six semester credit hours of "C" grades, or the "C" grade credits associated with at most two classes, whichever is greater, to satisfy degree program requirements. Students who earn more than six credit hours or two "C" grades may be dismissed from further study in the program. A student who earns a grade of "D" or below will be dismissed from further study in the Executive MHA program. In any course repeated, a student must earn a grade of "B" or better. The Executive Master of Health Administration program generally does not use plus/minus grading.

Audio and Visual Equipment Requirement: The program is 100 percent online, however in our commitment to engage students in an online learning environment, there may be times when the professors hold webinars and virtual conferences which require students to be online. As such, students need reliable audio and visual equipment (i.e. microphone, headsets, web camera, etc.) to participate in webinars and video conferences.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible research projects, scholarly papers, or our capstone experience also contribute to the self-development of our students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Essay indicating how the Executive Master of Health Administration track will enhance your career goals (1-2 pages).
- Résumé (no longer than two pages).
- Evidence of a minimum of three (3) years or more of relevant professional experience in healthcare.
- Three recommendation letters that speak to your health care and/or management experience (1 of those recommendation letters must be from your current supervisor).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation and TOEFL scores. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to the program is competitive, based on an evaluation of the applicant's abilities, past academic performance, work experience and the match of the program with career goals. The Executive Master of Health Administration track accepts the most qualified students. Not all students who apply may be accepted, even if minimum requirements are met.

UCF employees and state employees cannot use the tuition waiver for this program.

Application Deadlines

Executive Health Services Administration	Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Sep 1	

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Dawn Oetjen, PhD

Professor

Dawn.Oetjen@ucf.edu

Telephone: 407-823-0171

DPAC 401

Hannah Nguyen, MHA

Program Coordinator

Hannah.Nguyen@ucf.edu

Telephone: 407-823-3267

DPAC 401

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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Health Administration MHA, Health Services Administration Track

College: Community Innovation and Education	Degree: MHA
Department: School of Global Health Management and Informatics	Option: Nonthesis
Program Website: https://ccie.ucf.edu/hmi/programs/health-administration-ma/	
Graduate Program Handbook	

Track Description

The School of Global Health Management and Informatics offers a Master of Health Administration with a track in Health Services Administration. The HSA track is 51 credit hours beyond the bachelor's degree and is accredited by the Commission on Accreditation of Healthcare Management Education (CAHME).

Healthcare is America's fastest-growing service industry, and healthcare executives are in demand to administer the acute and long-term care needs of an aging population and to serve as consultants to businesses and industrial organizations. The Master of Health Administration degree program focuses on the structure of healthcare organizations and examines important issues that impact the healthcare industry as well as examining the management and administrative aspects of health services organizations. It encompasses the business management side of health care, including human resources, marketing, sales, accounting, information systems, planning, and facility management.

The HSA track is attractive to working professionals as all course options are offered at night. Selected courses are also available during the day for students with more flexible schedules. Students can enroll in the program on a full-time or part-time basis. Courses are offered in a mixed-mode format with classroom limits capped at 30 students per section.

Working professionals with 3 or more years of healthcare management experience may wish to consider the Executive Master of Health Administration (e-MHA): www.ucf.edu/online/degree/executive-master-health-administration/.

Curriculum

The Health Services Administration track in the Health Administration MHA program requires a minimum of 51 credit hours beyond the bachelor's degree. This includes 42 credit hours of required courses, 3 credit hours of the capstone course, 3 credit hours of electives, and 3 credit hours of an internship. The degree program also requires 6 credit hours of prerequisite courses, which are taken after admission into the program. Knowledge of personal computers is also required.

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree

Most required courses alternate between Fall, Spring, and Summer semesters and are not offered every term. The term each course is regularly offered is indicated in the course listing below. Students must meet with their academic adviser to develop a plan of study. A schedule of the program's curriculum can be found at the program website above.

The Master of Health Administration program offers courses in mixed-mode formats. This program cannot be completed online. Students with professional healthcare experience who are interested in an entirely online program can pursue the Executive track in the Health Administration MHA program.

Prerequisites

Students must complete prerequisite course work, including knowledge of finance and economics. Upon admission to the MHA program, students will be required to complete 2 prerequisite assessment tests. Students that receive a passing score of a 80% or higher will be exempt from taking the prerequisite in the respective area.

- HSA 5177 - Foundations of Health Care Finance **3 Credit Hours**
- HSA 5436 - Foundations of Health Care Economics **3 Credit Hours**

Required Courses: 45 Credit Hours

Core: 42 Credit Hours

- HSA 5198 - Health Care Decision Sciences and Knowledge Management **3 Credit Hours**
- HSA 6119 - Health Care Organization and Management **3 Credit Hours**
- HSA 6128 - Health Care Services Management **3 Credit Hours**
- HSA 6155 - Health Economics and Policy **3 Credit Hours**
- HSA 6195 - Management and Health Information Systems **3 Credit Hours**
- HSA 6342 - Health Care Human Resources **3 Credit Hours**
- HSA 6385 - Health Care Quality Management **3 Credit Hours**
- HSC 6636 - Issues and Trends in the Health Professions **3 Credit Hours**
- HSC 6911 - Scientific Inquiry in the Health Profession **3 Credit Hours**
- PHC 6000 - Epidemiology **3 Credit Hours**
- PHC 6146 - Health Planning and Policy **3 Credit Hours**
- PHC 6160 - Health Care Finance **3 Credit Hours**
- PHC 6164 - Health Care Finance II **3 Credit Hours**
- PHC 6420 - Case Studies in Health Law **3 Credit Hours**

Capstone: 3 Credit Hours

A final written examination experience is required of all students in the program. This requirement will be met through successful completion of the capstone course (HSA 6925). To successfully pass this course, students must earn a grade of "A" or "B." There is one exception: students who earn no other "C" grades while in the MHA program will be permitted to pass this course with a grade of "C."

- HSA 6925 - Capstone in HSA **3 Credit Hours** - *offered every semester*

Elective Courses: 3 Credit Hours

Choose one course from the following list:

- HSC 6656 - Healthcare Ethics **3 Credit Hours**
- HSA 6112 - International Health Systems **3 Credit Hours**
- HSA 6512 - Health Care Leadership **3 Credit Hours**
- HSA 6536 - Health and Medical Terminology for Health Administrators **3 Credit Hours**
- HSA 5509 - Health Care Risk Management I **3 Credit Hours** (additional fees required for this course)
- PHC 6183 - Health Care Emergency Management **3 Credit Hours**
- PUP 6607 - Politics of Health **3 Credit Hours**
- NGR 5660 - Health Disparities: Issues and Strategies **3 Credit Hours**
- GEY 5648 - Gerontology: An Interdisciplinary Approach **3 Credit Hours**
- Or an alternative graduate-level course at the discretion of the Program Director

Internship: 3 Credit Hours

As a requirement for the Master of Health Administration, students must complete an internship within the administrative realm of an actual healthcare organization. Students will work directly with the Director of Internships to select an organization of interest. Students are required to fulfill 240 contact hours within their selected organization over the course of the semester, or approximately 18-20 hours per week.

Many healthcare organizations will require that students complete a background check, which may include, but is not limited to, law enforcement fingerprinting, state driving records, credit reports, and criminal records check. The cost of the background check is the student's responsibility. Background checks may take time to complete and, subsequently, could delay the student's internship placement. It is advised that, in the semester prior to the internship, the student contact the organization directly to obtain further information on the organization's background check requirements. Students who have potential background issues must contact the Director of Internships to schedule an interview in order to discuss the impact on field placement. The Health Services Administration Program cannot guarantee internship placement or subsequent degree completion for students who do not pass background checks

Students with 3 or more years of relevant healthcare management experience may qualify for a research-based internship option and are advised to contact the Director of Internships.

- HSA 6946 Internship 3 Credit hours - *offered every semester* (Prerequisites: 24 credit hours completed in the program and completion of the internship orientation webcourse)

Additional Program Requirements

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Additionally, students may not earn more than six credit hours of "C" grades while in the program. Students who receive more than six credit hours of "C" will be dismissed from further study in the major. A student who earns a grade of "D" or below will be dismissed from further study in the HSA program. In any course repeated, a student must earn a grade of "B" or better. The Health Services Administration program generally does not use plus/minus grading.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible research projects, scholarly papers, internships, and the capstone experience also contribute to the self-development of our students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement indicating how the Master of Health Administration program will enhance career goals.
- Résumé (no longer than two pages).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to the program is competitive, based on evaluation of the applicant's abilities, past academic performance, work experience, and the match of the program with career goals. The Master of Health Administration program accepts only the most qualified students. Not all students who apply may be accepted, even if minimum requirements are met. Applicants who do not meet admission criteria are subject to an interview.

Students are admitted to the Master of Health Administration program in the fall and spring semesters. Full and part-time plans of study are available for both fall and spring admission cycles.

Application Deadlines

Health Services Administration	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Kourtney Nieves PhD

kourtney.nieves@ucf.edu
Telephone: 407-823-3264
UCF Downtown DPAC 404-B

Pamela VonGraff

pamela.vongraff@ucf.edu
Telephone: 407-823-0564
UCF Downtown DPAC 401

Graduate Admissions

TBD

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
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finaid@ucf.edu
http://finaid.ucf.edu

Health Care Informatics MS, Professional Science Master's ►

College: Community Innovation and Education	Degree: MS
Department: School of Global Health Management and Informatics	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/hmi/programs/hci/	
Graduate Program Handbook	

Program Description

The School of Global Health Management and Informatics offers a Professional Master of Science in Health Care Informatics, a program designed to meet the growing demand for highly trained health care informatics professionals.

The Health Care Informatics program is unique in that it focuses on providing students with a thorough grounding in the clinical, management and business aspects of the health informatics field. Credits must be taken in health care database management, systems analysis and design, privacy and security and other courses in the curriculum. Students are required to complete an internship during the last semester in the program.

The program is offered online in a distance-learning cohort format to offer access and convenience to working professionals. Applications and admissions are accepted twice per year for fall and spring terms only. Students with professional experience in health care, new graduates from bachelor's programs in health services and students seeking career changes to the health care industry are all encouraged to apply.

The Health Care Informatics program is entirely online. This program charges an enhanced tuition rate.

For state employees (including UCF employees), the tuition waiver will not cover courses in the HCI program.

The successful completion of the MSHCI degree does NOT qualify graduates to sit for the Registered Health Information Administrator (RHIA) or the Registered Health Information Technician (RHIT) certifications.

However, graduates WITH EXPERIENCE are eligible to sit for the Certified Health Data Analyst (CHDA) certification after the successful completion of your MSHCI degree.

Please note: Professional Master of Science in Health Care Informatics may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Professional Master of Science in Health Care Informatics will be awarded upon completion of 38 credits of prescribed graduate study. Courses are offered all online as a cohort program. All students must take the courses in the prescribed sequence, and during the last semester in the program students complete an internship and Capstone course.

Total Credit Hours Required: 38 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

There are no prerequisites required for the program. However, students without the necessary professional or educational experience are required to take three foundational courses in health services administration, health information management, and medical terminology. These can be completed while enrolled in the MSHCI program.

Foundational courses

- HIM 6007 - Survey of Health Information Management **1 Credit Hours**
- HIM 6267 - Foundation of Health Services Administration **1 Credit Hours**
- HIM 6477 - Medical Terminology for Informatics Professionals **1 Credit Hours**

Required Courses: 38 Credit Hours

- HIM 5118C - Health Care Informatics and Information Technology **4 Credit Hours**
- HIM 6123C - Project Management in Health Care Informatics **4 Credit Hours**
- HIM 6122C - System Analysis and Design **4 Credit Hours**
- HIM 6217C - Health Care Database Management **4 Credit Hours**
- HIM 6119C - Biostatistics and Decision Analysis **4 Credit Hours**
- HIM 6121C - Privacy and Security in Health Care Informatics **4 Credit Hours**
- HIM 6464C - Epidemiology, Analytics and Quality Management **4 Credit Hours**
- HIM 6124C - Health Care Data Architecture and Modeling **4 Credit Hours**
- HIM 6947 - MS Healthcare Informatics Internship **2 Credit Hours**
- HIM 6125 - Health Care Informatics Capstone **3 Credit Hours**

Cost Per Credit Hour

For the Health Care Informatics MS program, the cost per credit hour is \$772.69.*

*Fee is subject to change

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.

- Goal statement indicating how the Health Care Informatics MS program will enhance career goals or why the applicant wants to pursue this degree (at least 1 page, doubled-spaced, 12 pt).
- Résumé (no longer than two pages).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation and TOEFL scores. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to the program is competitive, based on evaluation of the applicant's abilities, past academic performance, work experience, and the match of the program with career goals. The Professional Master of Science in Health Care Informatics accepts the most qualified students. Not all students who apply may be accepted, even if minimum requirements are met. Furthermore, personal phone interviews may be used as part of the evaluation process.

Application Deadlines

Health Care Informatics MS, Professional Science Master's	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

The program offers scholarships to HCI students sporadically. The scholarship will not pay the total cost of tuition. However, there are University-wide scholarships offered to eligible students who qualify. These are found on the UCF Financial Aid Website at www.finaid.ucf.edu.

Contact Info

Graduate Program

Kendall Cortelyou-Ward PhD
Kendall.Cortelyou-Ward@ucf.edu
DPAC 401

Hannah Nguyen, MHA
Program Coordinator
Hannah.Ngyuen@ucf.edu
Telephone: 407-823-3267
DPAC 401

Graduate Admissions

TBA
gradadmissions@ucf.edu
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

History MA

College: Arts and Humanities	Degree: MA
Department: History	Option: Thesis
Program Websites: http://history.cah.ucf.edu/academics/graduate-programs/	
Graduate Program Handbook	

Program Description

The Master of Arts in History is designed to serve the needs of a variety of students, including those who plan to pursue a PhD, those wishing to improve their proficiency as secondary school teachers, and those who seek to enrich their intellectual lives. In addition to the General MA program, Public History and Accelerated Undergraduate to Graduate tracks are offered.

Students are served by departmental members whose areas of research include classical history, early Christianity, African history, American cultural and social history, local history, the South, the American Civil War, the American frontier, women and gender roles, Asian history, Middle-Eastern history, twentieth-century mass movements, Nazism and anti-Semitism in Central Europe, Latin American history, and European history, as well as other areas.

Program Tracks

- History MA, Accelerated Graduate Program Track
- History MA, Public History Track

Curriculum

The History MA program requires a minimum of 36 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 18 credit hours in an area of specialization, and 6 credit hours of electives outside of the area of specialization. At least 18 credit hours of the 36 required must be at the 6000 level. It also requires that you pass a capstone written examination in two fields, a foreign language translation examination, and complete and successfully defend a thesis or a project. No graduate credit is given for any grade lower than "B-."

Students have the option to take up to two (2) graduate courses (6 hours) in another UCF department/program at the discretion of the History MA Graduate Director. Students must meet in person with the Graduate Director prior to enrollment in the proposed course, with written information about the course and justification, before approval will be granted. Any course outside the history program will replace the student's independent study option. Only two (2) courses from any graduate certificate program (i.e. GIS, Women's Studies) can be counted toward the History MA degree.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 24 Credit Hours

Core: 6 Credit Hours

- HIS 6159 - Historiography **3 Credit Hours**

- HIS 6905 - History Capstone Class **3 Credit Hours**

Specialization: 18 Credit Hours

Students may specialize in one of the two areas below. Specialization courses must be approved by the student's adviser.

Eastern Hemisphere: African, Asian, European, or Middle Eastern

- AFH 5259 - Colloquium in African History **3 Credit Hours**
- AFH 5806 - The Historiography of Slavery in Africa **3 Credit Hours**
- ASH 5229 - History of the Middle East **3 Credit Hours**
- ASH 5408 - Colloquium in Modern China **3 Credit Hours**
- ASH 5485 - U.S. China Relations **3 Credit Hours**
- ASH 5925 - Colloquium in South Asian History **3 Credit Hours**
- ASH 6936 - Seminar in US-China Relations **3 Credit Hours**
- EUH 5419 - Colloquium in Roman History **3 Credit Hours**
- EUH 5459 - Colloquium in French History **3 Credit Hours**
- EUH 5546 - Colloquium: British History **3 Credit Hours**
- EUH 5579 - Colloquium in Soviet Russia **3 Credit Hours**
- EUH 5905 - European Imperialism **3 Credit Hours**
- EUH 5925 - Colloquium in Medieval Europe **3 Credit Hours**
- EUH 5208 - Colloquium in Early Modern History **3 Credit Hours**
- EUH 6939 - Seminar in European History **3 Credit Hours**

Western Hemisphere: Caribbean, North American, or South American

- AMH 5116 - Colloquium in Early American History **3 Credit Hours**
- AMH 5169 - Colloquium in the American Early Republic **3 Credit Hours**
- AMH 5176 - Colloquium in Civil War and Reconstruction **3 Credit Hours**
- AMH 5296 - Colloquium in 20th Century U.S. **3 Credit Hours**
- AMH 5378 - History of Technology **3 Credit Hours**
- AMH 5391 - Colloquium in U.S. Cultural History **3 Credit Hours**
- AMH 5406 - Colloquium in American South **3 Credit Hours**
- AMH 5636 - Colloquium in US Environmental History **3 Credit Hours**
- AMH 5925 - Colloquium in US Military History **3 Credit Hours**
- AMH 6346 - Seminar in the History of American Automobility **3 Credit Hours**
- AMH 5077 - Colloquium in Twentieth Century Tourism **3 Credit Hours**
- AMH 6429 - Seminar in Community and Local History **3 Credit Hours**
- AMH 6939 - Seminar in U.S. History **3 Credit Hours**
- HIS 5067 - Introduction to Public History **3 Credit Hours**
- HIS 5083 - Cultural Heritage Management **3 Credit Hours**
- HIS 5925 - History in the Digital Age **3 Credit Hours**
- HIS 6096 - Seminar in Historic Preservation **3 Credit Hours**
- HIS 6165 - Digital Tools for Historians **3 Credit Hours**
- HIS 6167 - Spatial History **3 Credit Hours**
- HIS 5088 - Readings in Curation and Public History **3 Credit Hours**

- HIS 6094 - Seminar in Curation and New Media **3 Credit Hours**
- LAH 5920 - Colloquium in Latin American History **3 Credit Hours**
- HIS 5926 - Colloquium: History of Women and Gender **3 Credit Hours**
- HIS 6592 - Seminar in Oral History **3 Credit Hours**

Elective Courses: 6 Credit Hours

Students will choose history courses outside their area of specialization.

- Electives **6 credit hours**

Thesis: 6 Credit Hours

The culminating event of the program is a minimum of six credit hours at the 6000-level developing and sustaining a historical argument in writing according to the accepted professional and ethical standards of the discipline.

- HIS 6971 - Thesis **6 credit hours minimum**

Thesis Defense

The final step in completing the thesis requirement is a one-hour oral defense before the thesis committee.

Comprehensive Examinations

Each candidate for the Master of Arts in History must pass written examinations in two fields upon conclusion of regular course work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the capstone course. Students are provided two attempts at successfully passing the examinations. Each student will also submit a thesis prospectus and preliminary bibliography, which the three members of the student's thesis committee judge acceptable as the preliminary step to beginning the thesis. An oral defense of the written exams and the thesis prospectus and bibliography is also a requirement of the capstone course.

Foreign Language

Students will also be expected to demonstrate a reading competency in one foreign language translation examination. The foreign language examination (FLE) must be completed one semester prior to the thesis defense. For detailed information on the History Foreign Language Exam requirement and process, please see the department's MA program guidebook.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in History (or an equivalent).
- A 3.25 GPA in all upper-division history courses taken as an undergraduate student.

- A Statement of Purpose (maximum of two pages) describing personal goals and objectives in seeking a graduate degree in history.
- Three letters of recommendation from former professors who can address the applicant's ability to undertake graduate-level history courses.
- A substantial academic writing sample between 2000 and 5000 words illustrating the applicant's ability to engage in historical research and analysis. Acceptable writing samples may include a chapter from an honors thesis, a conference paper, or a term paper.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants who hold an undergraduate degree in History but do not have a GPA of 3.0 in all work attempted while registered as an undergraduate student, or while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours), or a 3.25 GPA in their upper-division history courses may take up to 9 hours of graduate courses as non-degree-seeking students. To be admitted into the graduate program, however, they must earn a 3.3 GPA or higher in the graduate-level history courses they take under this status.

Generally, applicants who meet all of the above requirements but do not have an undergraduate degree in History must complete 12 hours of history course work at the 3000 and 4000 level, with a 3.25 GPA in these courses, before entering the graduate program. These courses will not count toward the graduate degree. The History Department Graduate Committee can waive this requirement, in whole or in part, when applicants present evidence that they are capable of successfully completing graduate history courses.

If, in addition, applicants do not meet one of the other requirements for entry, such as a GPA of 3.0 in all work attempted while registered as an undergraduate student, or while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours), they must complete 12 hours of course work at the 3000 and 4000 level with GPA of 3.5 before they can be admitted to the graduate program.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

History MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Amy E. Foster, PhD

Associate Professor and Director of Graduate Programs

Amy.Foster@ucf.edu

Telephone: 407-823-2225

Trevor Colbourn Hall (TCH) 317C

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

History MA, Accelerated Graduate Program Track

College: Arts and Humanities	Degree: MA
Department: History	Option: Thesis
Program Websites: http://history.cah.ucf.edu/academics/graduate-programs/	
Graduate Program Handbook	

Track Description

The Accelerated Undergraduate/Graduate track in the History MA program allows highly qualified undergraduate majors in history to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate program.

Participation will enable completion of the Bachelor of Arts and Master of Arts degrees in five instead of six years for students enrolled in full-time course work.

Curriculum

The Public History track requires a minimum of 36 credit hours beyond the bachelor's degree, including 9 credit hours of required core courses, 15 credit hours in the public history area of concentration, and; 6 credit hours of elective courses taken outside of the area of concentration. All students must pass a foreign language translation examination, pass a capstone written examination in two fields, and successfully complete and defend their thesis or project. No graduate credit is given for any grade lower than "B-."

Students have the option to take up to two (2) graduate courses (6 hours) in another UCF department/program at the discretion of the History MA Graduate Director. Students must meet in person with the Graduate Director prior to enrollment in the proposed course, with written information about the course and justification, before approval will be granted. Any course outside the history program will replace the student's independent study option. Only two (2)

courses from any graduate certificate program (i.e. GIS, Women's Studies) can be counted toward the History MA degree.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Additional Notes on the Accelerated Undergraduate and Graduate Program in History

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "B-" in each undergraduate and graduate history course for them to be counted toward the major.
- Students must compile a portfolio of their written work in history (completed inside and outside the classroom).
- Students admitted to the combined bachelor's/master's program may take one 5000-level course the first semester of their senior year.
- After successfully completing one 5000-level course, students will be eligible to take HIS 6159 - Historiography and another 5000-level course or the 6000-level seminar following the 5000-level colloquium they have already completed.
- Students may substitute these 9 hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate work
- Students need to pay fees at the graduate rate for the graduate courses they take.

Schedule for Students Enrolled Full-time

- Students complete 9 hours of graduate-level courses in their senior year.
- Students enroll in at least 3 credit hours of graduate-level courses the summer after they receive their bachelor's degree.
- Students enroll in 9 hours of graduate-level courses in both spring and fall semesters during their master's program.
- Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first year in the master's program.
- Students complete and defend a master's thesis in 6 hours.

Undergraduate Requirements

Please see the current edition of the Undergraduate Catalog.

Graduate Requirements

The History MA program requires a minimum of 36 credit hours beyond the bachelor's degree, including 12 credit hours of required courses, 18 credit hours in an area of concentration, and six credit hours of electives outside of the area of concentration. Students must pass a foreign language competency test, pass a written examination in two fields, and successfully complete and defend their thesis. No graduate credit is given for any grade lower than "B- ."

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The accelerated undergraduate/graduate program in history allows highly qualified undergraduate majors in history to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the combined undergraduate and graduate program toward the end of their junior year or after 12 hours of upper-level history course work.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A 3.5 GPA or higher in history courses.
- An essay indicating reasons for wishing to complete the combined bachelor's/master's program.
- Three letters of recommendation from the History Department faculty.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students will be formally admitted to the master's program following receipt of the bachelor's degree.

Application Deadlines

Accelerated Graduate Program in History	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Dec 1	
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

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Amy E. Foster, PhD

Associate Professor and Director of Graduate Programs

Amy.Foster@ucf.edu

Telephone: 407-823-2225

Trevor Colbourn Hall (TCH) 317C

Scot A. French, PhD

Associate Professor and Director of Public History

Scot.French@ucf.edu

Telephone: 407-823-2225

Trevor Colbourn Hall (TCH) 315B

Graduate Admissions

Mike Burke

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 finaid@ucf.edu
 http://finaid.ucf.edu

History MA, Public History Track

College: Arts and Humanities	Degree: MA
Department: History	Option: Thesis
Program Websites: http://history.cah.ucf.edu/academics/graduate-programs/	
Graduate Program Handbook	

History MA

The Master of Arts in History is designed to serve the needs of a variety of students, including those who plan to pursue a PhD, those wishing to improve their proficiency as secondary school teachers, and those who seek to enrich their intellectual lives. In addition to the General MA program, Public History and Accelerated Undergraduate to Graduate tracks are offered.

Track Description

The Public History Track in the History MA program is designed to teach students how to preserve and interpret history while engaging a broad variety of audiences. Students who wish to pursue careers in community and local history, digital history, historic site preservation and administration, museum studies, oral history, heritage tourism, or a variety of other careers that employ applied research will find this degree valuable and rewarding.

Courses in the Public History Track allow students to learn the theories, methods, and technical skills historians use as they put history to work in the world. They build on the foundation of reading colloquia and research seminars that are firmly located in time and space to explicitly focus on the practice of history.

Curriculum

The Public History track requires a minimum of 36 credit hours beyond the bachelor's degree, including 9 credit hours of required core courses, 15 credit hours in the public history area of concentration, and; 6 credit hours of elective courses taken outside of the area of concentration. All students must pass a foreign language translation examination, pass a capstone written examination in two fields, and successfully complete and defend their thesis or project. No graduate credit is given for any grade lower than "B-."

Students have the option to take up to two (2) graduate courses (6 hours) in another UCF department/program at the discretion of the History MA Graduate Director. Students must meet in person with the Graduate Director prior to enrollment in the proposed course, with written information about the course and justification, before approval will be granted. Any course outside the history program will replace the student's independent study option. Only two (2)

courses from any graduate certificate program (i.e. GIS, Women's Studies) can be counted toward the History MA degree.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—24 Credit Hours

Core—9 Credit Hours

- HIS 5067 - Introduction to Public History **3 Credit Hours**
- HIS 6159 - Historiography **3 Credit Hours**
- HIS 6905 - History Capstone Class **3 Credit Hours**

Specialization—15 Credit Hours

Students must take 9 credit hours of Public History courses or internships from the following:

- AMH 6346 - Seminar in the History of American Automobility **3 Credit Hours**
- AMH 6429 - Seminar in Community and Local History **3 Credit Hours**
- HIS 6592 - Seminar in Oral History **3 Credit Hours**
- HIS 5083 - Cultural Heritage Management **3 Credit Hours**
- HIS 5925 - History in the Digital Age **3 Credit Hours**
- HIS 6096 - Seminar in Historic Preservation **3 Credit Hours**
- HIS 6165 - Digital Tools for Historians **3 Credit Hours**
- HIS 5088 - Readings in Curation and Public History **3 Credit Hours**
- HIS 6094 - Seminar in Curation and New Media **3 Credit Hours**
- HIS 6167 - Spatial History **3 Credit Hours**
- HIS 6942 - Internship **3 Credit Hours**

Western Hemisphere Courses: Caribbean, North American, or South American

In addition, students must take 6 credit hours from the following Western Hemisphere courses:

- AMH 5116 - Colloquium in Early American History **3 Credit Hours**
- AMH 5169 - Colloquium in the American Early Republic **3 Credit Hours**
- AMH 5176 - Colloquium in Civil War and Reconstruction **3 Credit Hours**
- AMH 5296 - Colloquium in 20th Century U.S. **3 Credit Hours**
- AMH 5378 - History of Technology **3 Credit Hours**
- AMH 5391 - Colloquium in U.S. Cultural History **3 Credit Hours**
- AMH 5406 - Colloquium in American South **3 Credit Hours**
- AMH 5077 - Colloquium in Twentieth Century Tourism **3 Credit Hours**
- AMH 6346 - Seminar in the History of American Automobility **3 Credit Hours**
- HIS 5926 - Colloquium: History of Women and Gender **3 Credit Hours**
- AMH 5636 - Colloquium in US Environmental History **3 Credit Hours**
- AMH 5925 - Colloquium in US Military History **3 Credit Hours**
- AMH 6939 - Seminar in U.S. History **3 Credit Hours**
- LAH 5920 - Colloquium in Latin American History **3 Credit Hours**

Elective Courses—6 Credit Hours

Students choose 6 hours of electives in the Eastern Hemisphere field, from the following:

Eastern Hemisphere Courses: African, Asian and Middle Eastern, or European

- AFH 5259 - Colloquium in African History **3 Credit Hours**
- AFH 5806 - The Historiography of Slavery in Africa **3 Credit Hours**
- ASH 5229 - History of the Middle East **3 Credit Hours**
- ASH 5408 - Colloquium in Modern China **3 Credit Hours**
- ASH 5485 - U.S. China Relations **3 Credit Hours**
- ASH 5925 - Colloquium in South Asian History **3 Credit Hours**
- ASH 6936 - Seminar in US-China Relations **3 Credit Hours**
- EUH 5419 - Colloquium in Roman History **3 Credit Hours**
- EUH 5459 - Colloquium in French History **3 Credit Hours**
- EUH 5546 - Colloquium: British History **3 Credit Hours**
- EUH 5579 - Colloquium in Soviet Russia **3 Credit Hours**
- EUH 5905 - European Imperialism **3 Credit Hours**
- EUH 5925 - Colloquium in Medieval Europe **3 Credit Hours**
- EUH 5208 - Colloquium in Early Modern History **3 Credit Hours**
- EUH 6939 - Seminar in European History **3 Credit Hours**

Thesis—6 Credit Hours

- HIS 6971 Thesis **6 credit hours minimum**

The culminating event of the program is a minimum of six credit hours at the 6000-level developing and sustaining a historical argument in writing according to the accepted professional and ethical standards of the discipline.

Thesis or Project Defense

The final step in completing the thesis requirement is a one-hour oral defense before the thesis committee.

Comprehensive Examination

Each candidate for the Master of Arts in History must pass written examinations in two fields upon conclusion of regular course work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the capstone course. Students are provided two attempts at successfully passing the examinations. Each student will also submit a thesis prospectus and preliminary bibliography, which the three members of the student's thesis committee judge acceptable as the preliminary step to beginning the thesis. An oral defense of the written exams and the thesis prospectus and bibliography is also a requirement of the capstone course.

Foreign Language Competency

Students will also be expected to demonstrate reading competency in a foreign language translation examination. The foreign language examination (FLE) must be completed one semester prior to the thesis defense. For detailed information on the History Foreign Language Exam requirement and process, please see the department's MA program guidebook.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants must provide:

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- A 3.25 GPA in all upper-division history courses taken as an undergraduate student.
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- A substantial academic writing sample between 2000 and 5000 words illustrating the applicant's ability to engage in historical research and analysis. Acceptable writing samples may include a chapter from an honors thesis, a conference paper, or a term paper.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
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If, in addition, applicants do not meet one of the other requirements for entry, such as a GPA of 3.0 in all work attempted while registered as an undergraduate student, or while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours), they must complete 12 hours of course work at the 3000 and 4000 level with GPA of 3.5 before they can be admitted to the graduate program.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Public History	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Dec 1	
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*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Contact Info

Graduate Program

Amy E. Foster, PhD

Associate Professor

Amy.Foster@ucf.edu

Telephone: 407-823-2225

Trevor Colbourn Hall (TCH) 315B

Scot A. French, PhD

Associate Professor and Director of Public History

Scot.French@ucf.edu

Telephone: 407-823-2225

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UCF Student Financial Assistance

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Hospitality and Tourism Management MS ►

College: Hospitality Management	Degree: MS
Program Websites: http://www.hospitality.ucf.edu/	Option: Thesis, Nonthesis
Graduate Program Handbook	

Program Description

The Master of Science in Hospitality and Tourism Management enables students to build on their strengths and interests, broadens their knowledge of the industry, sharpens their management skills, and incorporates their

professional and extracurricular experiences. The Rosen College of Hospitality Management candidates are especially attractive hires for hospitality and tourism organizations around the globe.

The typical Hospitality and Tourism Management MS candidate:

- Is a professional working in a position related to hospitality, tourism, or events.
- Holds an undergraduate degree in hospitality, business management, or a related discipline.
- Understands that advanced educational training is required to be competitive in the thriving hospitality, tourism, and event industry.

The program offers thesis and non-thesis options. The thesis option is intended for students who are interested in the scientific study of the various aspects of the hospitality and tourism industry and who may anticipate pursuing a doctoral degree or a professional research position. The non-thesis option is intended for students who anticipate a managerial and leadership position in the hospitality and tourism industry. The emphasis of the non-thesis option is on coursework, practical experience, and real-world insight.

The Rosen College of Hospitality Management aims to provide students with an outstanding graduate hospitality management educational experience and serve other stakeholders with continuing education, research, and service. The College is committed to UCF goals by providing intellectual leadership through quality hospitality education, international prominence by means of educational and research programs, promotion of a global perspective, nurturing inclusiveness and diversity, and partnerships with local, national, and international hospitality and tourism constituencies.

Please note: Hospitality and Tourism Management (MS) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Tracks

- Hospitality and Tourism Management MS, MD Track

The MD Track is designed to accommodate UCF medical students who wish to pursue a Hospitality and Tourism MS concurrently while pursuing their medical degree.

Curriculum

The Hospitality and Tourism Management MS program requires a minimum of 33 credit hours for students who choose the thesis option or non-thesis option. For both options, 18 credit hours are required core courses. Students in the thesis option must also take nine credit hours of a restricted elective and six credit hours of thesis work. Students in the non-thesis option must take 15 credit hours of electives. You can complete your degree either fully online, face-to-face, or customize it through a mix of both to fit your schedule and budget, although the thesis option is not available to students who study fully-online.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Candidates for the MS degree are constantly challenged with numerous requirements to engage in independent learning throughout the program of study through special projects and papers. For example, the capstone course (i.e., the last

one that you complete prior to graduation), HMG 6296 - Hospitality/Tourism Strategic Issues requires a critical strategic audit project and a reflective paper. The project demonstrates a range of cross-discipline knowledge and analytical skills to perform an executive-level analysis of an enterprise. The reflective paper has guiding questions that are subjective in nature. Successful completion requires a thorough, insightful, and well-articulated document that describes the learner's value proposition to industry and society.

Required Courses: 18 Credit Hours

- HMG 6228 - Critical Issues in Hospitality Human Resources **3 Credit Hours**
- HMG 6245 - Managing Hospitality and Guest Services Organizations **3 Credit Hours**
- HMG 6477 - Financial Analysis of Hospitality Enterprises **3 Credit Hours**
- HMG 6585 - Data Analysis in Hospitality and Tourism Research **3 Credit Hours**
- HMG 6596 - Strategic Marketing in Hospitality and Tourism **3 Credit Hours**
- HMG 6296 - Hospitality/Tourism Strategic Issues **3 Credit Hours** (Capstone course)

Thesis Option: 15 Credit Hours

An appropriate culminating academic experience is required of all master's degree candidates. For those students in the thesis option, a thesis defense is required. Thesis defenses will be approved by a majority vote of the thesis advisory committee. Further approval is required by the Dean of the Rosen College of Hospitality Management and the UCF College of Graduate Studies before final acceptance of the thesis in fulfilling degree requirements.

- HMG 6586 - Research Methods in Hospitality and Tourism **3 Credit Hours**
- HMG 6971 Thesis **6 Credit Hours** (research for thesis option only)
- Electives chosen from the list below **6 Credit Hours**

Nonthesis Option: 15 Credit Hours

An appropriate culminating academic experience is required of all master's degree candidates. For students in the non-thesis option, an appropriate culminating academic experience is the successful completion of HMG 6296 - Hospitality/Tourism Strategic Issues, a required course in the curriculum that is designated as a capstone course. This capstone course acquaints students with the principles of strategic decision-making in various sectors of the tourism and hospitality industry. Students are required to apply skills, knowledge, and understanding in order to identify areas of concern encountered by managers responsible for formulating and implementing operational strategies.

- Electives chosen from the list below **15 Credit Hours**

Elective Courses

A maximum of three credit hours of restricted elective may be taken as an independent study.

- FSS 6365 - Management of Food Service Operations **3 Credit Hours**
- HMG 6227 - Advanced Training and Development in the Hospitality Industry **3 Credit Hours**
- HMG 6251 - The Management of Lodging Operations **3 Credit Hours**
- HMG 6267 - Case Studies in Restaurant Management **3 Credit Hours**
- HMG 6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization **3 Credit Hours**
- HMG 6347 - Contemporary Issues in the Resort Industry **3 Credit Hours**
- HMG 6446 - Hospitality/Tourism Information Technology **3 Credit Hours**
- HMG 6466 - Applied Revenue Management Techniques in Hospitality **3 Credit Hours**

- HMG 6476 - Feasibility Studies for the Hospitality/Tourism Enterprises **3 Credit Hours**
- HMG 6528 - Convention and Conference Sales and Services **3 Credit Hours**
- HMG 6529 - Contemporary Issues in Resort Sales Management **3 Credit Hours**
- HMG 6533 - Hospitality/Tourism Industry Brand Management **3 Credit Hours**
- HMG 6556 - Digital Marketing and Big Data Management for Hospitality and Tourism **3 Credit Hours**
- HMG 6565 - Social Media in Hospitality and Tourism **3 Credit Hours**
- HMG 6566 - Principles of Destination Marketing and Management **3 Credit Hours**
- HMG 6586 - Research Methods in Hospitality and Tourism **3 Credit Hours**
- HMG 6710 - International Tourism Management **3 Credit Hours**
- HMG 6738 - Tourism Industry Analysis **3 Credit Hours**
- HMG 6756 - Mega-Events **3 Credit Hours**
- HMG 6797 - Event Administration **3 Credit Hours**

Independent Learning

Candidates for the MS degree are constantly challenged with numerous requirements to engage in independent learning during the program of study through special projects and papers. For students in the non-thesis option, an appropriate culminating academic experience is the successful completion of HMG 6296 - Hospitality/Tourism Strategic Issues, a required course in the curriculum that is designated as a capstone course. HMG 6296 should be taken during the final term of study, and enrollment is based on approval. This capstone course acquaints students with the principles of strategic decision-making in various sectors of the tourism and hospitality industry. Students are required to apply skills, knowledge, and understanding in order to identify areas of concern encountered by managers responsible for formulating and implementing operational strategies.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is restricted each semester to individuals showing high promise of success in postgraduate studies. In addition to the requirements noted below, other indicators of promise include the applicant's extracurricular activities, work experience, job responsibilities, and leadership experience, which will be considered in making admissions decisions.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- Three letters of recommendation.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Prerequisites

For students with undergraduate majors in Hospitality Management or Business Administration, there will be no undergraduate course prerequisites, provided they have successfully completed an undergraduate course in statistics or applied quantitative analysis with a grade of "C" or higher.

For industry professionals with an undergraduate degree in a discipline other than Hospitality Management or Business Administration, the following two undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- STA 2014 - Principles of Statistics or STA 2023 Statistical Methods or
- HFT 3930 - Applied Quantitative Analysis for the Hospitality and Tourism Industry

Students would also have to have successfully completed an undergraduate course in statistics or applied quantitative analysis with a grade of "C" or higher within the first year of course work in the program. The following undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- STA 2401 or Stat 2023 Principles of Statistics or
- HFT 3930 Applied Quantitative Analysis for the Hospitality and Tourism Industry

Application Deadlines

Hospitality and Tourism Management MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

David Kwun PhD

Associate Professor
MS Programs Coordinator
David.Kwun@ucf.edu
Telephone: 407-903-8190
RCHM 277

Kathy Henry MPA

Assistant Director, Graduate Program Academic Advisor
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102C

Ricarya Jackson

Administrative Assistant Graduate Programs
Ricarya.Jackson@ucf.edu
Telephone: 407-903-8196
RCHM 102C

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Hospitality and Tourism Management MS, MD Track

College: Hospitality Management	Degree: MS
Program Websites: http://www.hospitality.ucf.edu/	Option: Nonthesis
Graduate Program Handbook	

Track Description

The Master of Science in Hospitality and Tourism Management enables students to build on their strengths and interests; broadens their knowledge of the industry; sharpens their management skills; and incorporates their professional and extracurricular experiences.

The MD Track is designed to accommodate UCF medical students who wish to pursue a Hospitality and Tourism MS concurrently while pursuing their medical degree. Students enrolled in the MD track will witness and experience adaptable elements to effect a cultural change in the practice of medicine vis-a-vis the concept of hospitality and service-oriented business models.

Curriculum

The Hospitality and Tourism Management MS program requires a minimum of 33 credit hours for students who choose the MD track. This restricted admission MD track has 18 credit hours of required core courses and a minimum of 15 credit hours of restricted electives.

Candidates for the MS degree are constantly challenged with numerous requirements to engage in independent learning during the program of study through special projects and papers. For example, the capstone course (i.e., the last one that you complete prior to graduation), HMG 6296 - Hospitality/Tourism Strategic Issues, requires a critical strategic audit project and a reflective paper. The project demonstrates a range of cross-discipline knowledge and analytical skills to perform an executive-level analysis of an enterprise. The reflective paper has guiding questions that are subjective in nature and successful completion requires a thorough, insightful, and well-articulated document that describes the learner's value proposition to industry and society.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

- HMG 6228 - Critical Issues in Hospitality Human Resources **3 Credit Hours**
- HMG 6245 - Managing Hospitality and Guest Services Organizations **3 Credit Hours**
- HMG 6477 - Financial Analysis of Hospitality Enterprises **3 Credit Hours**
- HMG 6585 - Data Analysis in Hospitality and Tourism Research **3 Credit Hours**
- HMG 6596 - Strategic Marketing in Hospitality and Tourism **3 Credit Hours**
- HMG 6296 - Hospitality/Tourism Strategic Issues **3 Credit Hours** (Capstone Course)

Elective Courses: 15 Credit Hours

Students in the MD track will take an additional 15 credit hours from the list of electives.

- FSS 6365 - Management of Food Service Operations **3 Credit Hours**
- HMG 6227 - Advanced Training and Development in the Hospitality Industry **3 Credit Hours**
- HMG 6251 - The Management of Lodging Operations **3 Credit Hours**
- HMG 6267 - Case Studies in Restaurant Management **3 Credit Hours**
- HMG 6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization **3 Credit Hours**
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- HMG 6586 - Research Methods in Hospitality and Tourism **3 Credit Hours**
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- HMG 6533 - Hospitality/Tourism Industry Brand Management **3 Credit Hours**
- HMG 6556 - Digital Marketing and Big Data Management for Hospitality and Tourism **3 Credit Hours**
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- HMG 6566 - Principles of Destination Marketing and Management **3 Credit Hours**
- HMG 6710 - International Tourism Management **3 Credit Hours**
- HMG 6738 - Tourism Industry Analysis **3 Credit Hours**
- HMG 6756 - Mega-Events **3 Credit Hours**
- HMG 6797 - Event Administration **3 Credit Hours**
- BMS 6050 - Psychosocial Issues in Healthcare **4 Credit Hours**
- BMS 6911 - Focused Inquiry and Research Experience II **5 Credit Hours**

Independent Learning

Candidates for the MS degree are constantly challenged with numerous requirements to engage in independent learning during the program of study through special projects and papers. An appropriate culminating academic experience is the successful completion of HMG 6296 - Hospitality/Tourism Strategic Issues, a required course in the curriculum that is designated as a capstone course. HMG 6296 should be taken during the final term of study, and enrollment is based on approval. This capstone course acquaints students with the principles of strategic decision-making in various sectors of the tourism and hospitality industry. Students are required to apply skills, knowledge, and understanding in order to identify areas of concern encountered by managers responsible for formulating and implementing operational strategies.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is restricted each semester to individuals showing high promise of success in postgraduate studies. In addition to the requirements noted below, other indicators of promise include the applicant's extracurricular activities, work experience, job responsibilities, and leadership experience, which will be considered in making admissions decisions.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- Three letters of recommendation.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Prerequisites

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For industry professionals with an undergraduate degree in a discipline other than Hospitality Management or Business Administration, the following two undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- STA 2014 - Principles of Statistics or STA 2023 Statistical Methods or
- HFT 3930 - Applied Quantitative Analysis for the Hospitality and Tourism Industry

Students would also have to have successfully completed an undergraduate course in statistics or applied quantitative analysis with a grade of "C" or higher within the first year of course work in the program. The following undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- STA 2401 or STA 2023 Principles of Statistics or
- HFT 3930 Applied Quantitative Analysis for the Hospitality and Tourism Industry

Application Deadlines

MD	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1		Apr 1

International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Fellowships

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Contact Info

Graduate Program

David Kwun PhD

MS Programs Coordinator
 Associate Professor
 David.Kwun@ucf.edu
 Telephone: 407-903-8190
 RCHM 277

Kathy Henry MPA

Assistant Director, Grad Program Academic Advisor
 Kathy.Henry@ucf.edu
 Telephone: 407-903-8024
 RCHM 102

Ricarya Jackson

Administrative Assistant Graduate Programs
Ricarya.Jackson@ucf.edu
 Telephone: 407-903-8196
 RCHM 102C

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
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Institution Codes

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Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Industrial and Organizational Psychology MS

College: Sciences	Degree: MS
Department: Psychology	Option: Thesis, Nonthesis
Program Websites: http://sciences.ucf.edu/psychology/graduate/ms-io/	
Graduate Program Handbook	

Program Description

The Master of Science in Industrial and Organizational Psychology program focuses on the application of psychological principles to organizations and emphasizes the major areas of selection and training of employees, applied theories of organizational behavior including models of motivation, job satisfaction, and productivity; test theory and construction; assessment center technology; statistics and experimental design and a variety of current topics. Industrial and Organizational Psychology graduates are involved in many issues of critical importance to society including fairness in the selection and treatment of employees, the creation of work environments that maximize the satisfaction and productivity of employees, and the study of technological influences on human performance.

Curriculum

The MS degree program in Industrial and Organizational Psychology is a four-semester program for full-time students. Both thesis and nonthesis options are offered and both consist of a minimum of 38 semester hours of work.

The MS degree is conferred when students have fulfilled the requirements of either the thesis or nonthesis option. No graduate credit will be given for any grade lower than a B- (2.75), but the grade will be counted toward the GPA. Courses may be retaken to achieve a better grade; however, the unsatisfactory grade will remain on the transcript since there is no grade forgiveness at the graduate level. In order to stay in good academic standing, students must maintain a minimum Graduate Status GPA of 3.0 in all coursework taken since entering graduate status and a 3.0 in their program of study.

Total Credit Hours Required: 38 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 26 Credit Hours

- INP 6005 - Overview of Research in Industrial and Organizational Psychology **3 Credit Hours**
- INP 6058 - Job Analysis and Performance Appraisal **3 Credit Hours**
- INP 6080 - Ethical, Legal, and Professional Issues in Industrial and Organizational Psychology **3 Credit Hours**
- INP 6317 - Work Motivation and Job Attitudes **3 Credit Hours**
- INP 6318 - Recruitment, Placement and Selection **3 Credit Hours**
- PSY 6216C - Research Methodology **4 Credit Hours**
- PSY 6308C - Psychological Testing **4 Credit Hours**
- INP 6072 - Survey Research Methods and Program Evaluation in Indust. and Org. Psychology **3 Credit Hours**

Electives: Take two of the following (6 Credit Hours)

- INP 6215 - Assessment Centers and Leadership **3 Credit Hours**
- INP 6605 - Training and Team Performance **3 Credit Hours**
- SOP 5059 - Advanced Social Psychology **3 Credit Hours**

Thesis Option: 6 Credit Hours

- INP 6971 **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Restricted Electives: 6 Credit Hours

Students will consult with their adviser to choose two of the three courses from the following list.

- INP 6933 - Seminar in Industrial and Organizational Psychology **3 Credit Hours**
- INP 6945C - Industrial Psychology Practicum **3 Credit Hours**
- INP 6091 - Industrial and Organizational Psychology Consulting Practice **3 Credit Hours**

Professional Requirement

Students electing the nonthesis option are required to produce a professional LinkedIn profile to showcase both their research and applied project work. A minimum of 3 applied projects must be included and can be generated from work completed in the Practicum, Consulting Practice, Seminar, or other applied practice classes (e.g., Assessment Centers and Leadership). Students are expected to document work from settings in private industry, federal, state, or local government, educational institutions, or consulting firms. The LinkedIn profile will be evaluated jointly by the faculty adviser and the program director.

Independent Learning

Students electing the non-thesis option are required to materially participate in the conduct of applied research. Students have 2 options: (1) participate in UCF Performance Solutions projects or (2) work one-on-one or in a group with a faculty member on a research project.

The first option is to participate in applied research and consulting activities through UCF Performance Solutions (<http://psychology.cos.ucf.edu/performancesolutions/>), under the supervision of the faculty member leading the project(s) and/or the director of Performance Solutions. Students will be expected to contribute meaningfully to their work on infrastructure teams and their work on paid projects, if applicable. Example activities students may perform include conducting literature reviews, writing white papers, data collection and analysis, preparing proposals for prospective clients, presenting results, and assisting with marketing and business development activities for Performance Solutions. The aim of these activities is to facilitate development of the top 10 competencies for "individual contributor" suggested by Zelin et al. (2015) and published by the Society for Industrial and Organizational Psychology (Division 14 of the American Psychological Association) important for the application of research to the practice of I/O psychology. Students must comply with the progress system determined by the director of Performance Solutions, which may include self-reported progress towards individual and team goals using work diaries. These and other tracking methods the director requests, such as faculty evaluations for paid projects, must be submitted to the director of Performance Solutions before finals week. Students will receive feedback on their progress from the director of Performance Solutions at the end of each semester. Only students who have been determined to make meaningful contributions to their infrastructure teams and paid client projects will pass the research requirement.

Students who elect to work one-on-one or in a group under the supervision of a faculty adviser will conduct library research, collect and analyze data, and prepare of a research report of sufficient quality to submit for publication or presentation at a professional conference. Students must provide their manuscript and documentation of submission to a journal, conference, or book editor via Webcourses@UCF. Students must also receive approval of the work from their adviser and the Program Director.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Official, competitive GRE score taken within the last five years
- A bachelor's degree with a major in psychology or allied area, or a baccalaureate degree with the completion of undergraduate courses in statistics and research methods, and preference of four additional upper-division psychology courses (12 credit hours)
- Résumé
- A 1-2 page Goal Statement that includes the applicant's reasons for choosing I/O as a career, reasons for choosing this UCF program specifically, and any relevant knowledge, skills, abilities and other experiences the applicant has that might make him/her a good I/O student, practitioner, and/or researcher
- Three letters of recommendation, preferably with at least two furnished by college or university professors who are acquainted with the applicant

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Acceptance decisions are made only in the spring semester for admission in the fall of each year.

Application Deadlines

Industrial and Organizational Psychology MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Victoria Pace, PhD

Associate Lecturer
victoria.pace@ucf.edu
Telephone: 407-823-4481
OTC 600 Bldg, Office 281J

Dani Draper

danielle.draper@ucf.edu
Telephone: 407-823-2458
PSY 301G

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Industrial Engineering MS ►

College: Engineering and Computer Science	Degree: MS
Department: Industrial Engineering and Management Systems	Option: Thesis, Nonthesis
Program Websites: http://www.iems.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science programs in Industrial Engineering are designed to produce highly skilled graduates who are prepared to be industrial engineers, engineering managers or technical professionals, or leaders for the global economy, as well as preparing them for further graduate work or independent research.

Industrial Engineering, in its broad nature, focuses on the design and improvement of systems, products, and processes. A total systems approach is used to optimize the various aspects of operations in both manufacturing and service industries. Industrial engineers use many analytical approaches to improve productivity, safety, and quality of working life while reducing operating costs.

The Industrial Engineering programs are structured to support the emergence of Central Florida as a national center of high technology as well as supporting the diverse service industries in the region and throughout the nation.

In the Industrial Engineering MS programs, students are able to individually craft their programs of study and select their courses to focus on one or more of the following research areas.

Human Systems Engineering/Ergonomics

As technology has become more sophisticated, the need to design for the human user has become more difficult, yet even more important. Human engineering and ergonomics assist in ensuring that as technology advances, the abilities, limitations, and needs of humans are considered in the system design. This not only supports the needs of the user, it also optimizes the efficiency and usability of the system designed. Traditionally, ergonomics has been associated with biomechanical issues and work measurement and performance issues in physical system design, as well as occupational and industrial safety. The broader focus of human engineering encompasses those issues as well as incorporating the reaction and effectiveness of human interaction with systems, both physical systems and virtual systems such as computer-based models.

Research in the Human Systems Engineering and Ergonomics area provides students with the necessary knowledge in human engineering and ergonomics to effectively design tasks, industrial systems, and work environments that maximize human performance, safety, and overall productivity.

Interactive Simulation and Training Systems

The Interactive Simulation and Training Systems research within the Industrial Engineering MS program focuses on providing a fundamental understanding of significant topics relative to simulation systems and the requirements, design, development, and use of such systems for knowledge transfer in the technical environment. Courses in this area address the evolving and multiple discipline application of interactive simulation by providing a wealth of electives to support the development of individual student interests and talents. In conjunction with UCF's Institute for Simulation and Training, industrial organizations involved in simulation in the Central Florida region, military organizations, and other governmental organizations, ISTS research in the MS program provides exposure to both military and commercial interactive simulation and training systems.

The emphasis is on the application and development of interactive simulation and training systems to meet various requirements including, but not limited to: simulators, skill trainers, organizational learning systems, computer and web-based interactive simulation systems and other novel interactive simulation efforts. Courses in the interactive simulation and training systems area prepare individuals with an undergraduate degree in engineering, science, education, psychology, mathematics or other related disciplines for careers in simulation, focusing particularly on the interactive simulation and training systems industries.

Operations Research

The Operations Research courses in the Industrial Engineering MS program uses mathematics and computer-based systems to model operational processes and decisions in order to develop and evaluate alternatives that will lead to gains in efficiency and effectiveness. Drawing on probability, statistics, simulation, optimization, and stochastic processes, Operations Research provides many of the analytic tools used by industrial engineers as well as by other analysts to improve processes, decision-making, and management by individuals and organizations. Research in this area is ideal for students who have an undergraduate degree in engineering, mathematics, or science. The knowledge in these courses builds on an undergraduate Engineering, Mathematics, or Science degree to develop a strong modeling and analytical capability to improve processes and decision-making.

Quality Systems Engineering

The Quality Systems Engineering research in the Industrial Engineering MS program focuses on providing the knowledge for improving product and process quality in manufacturing and service industries. Quality Systems Engineering provides both the quantitative tools for measuring quality and the managerial focus and organizational insight required to implement effective continuous improvement programs and incorporate the voice of the customer. The Quality Systems Engineering courses build on an undergraduate degree in industrial engineering or a closely related discipline to provide the necessary knowledge to plan, control, and improve the product assurance function in government, military, service, or manufacturing organizations.

Simulation Modeling and Analysis

The Simulation Modeling and Analysis research and studies in the Industrial Engineering MS program focus on providing a fundamental understanding of the functional and technical design requirements for simulation in manufacturing and service industries. Research in this area is based on a systems modeling paradigm and provides coding and development capability in the context of a broader systems framework. Significant exposure to design and analysis aspects is a core element of the track. The Simulation Modeling and Analysis research and coursework prepare individuals with an undergraduate degree in Engineering, Science, Mathematics, or a closely related discipline for careers in simulation, focusing particularly on using simulation as an analysis and design tool for the manufacturing and service industries.

Systems Engineering

Intelligence is being infused into everyday systems, processes and infrastructure that enable physical goods to be developed, manufactured, bought and sold. These same systems also facilitate the movement and delivery of global products and services that support worldwide markets such as finance, energy resources, and healthcare systems.

With these technological advancements, comes a new level of complexity as organizations struggle to integrate systems, processes and data feeds. As a result, the demand for systems engineering and related skills is expected to grow significantly.

Systems engineers design and implement computer systems, software, and networks, including defining complex system requirements, and determining system specifications, processes and working parameters.

The Systems Engineering studies and research in the Industrial Engineering MS program are intended for individuals of all engineering disciplines. Research and coursework focus on a systems view of engineering problems related to the management of complex industrial, military, government, and social systems.

Please note: Industrial Engineering (MS) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-MS.pdf>.

Program Tracks

- Industrial Engineering MS, Accelerated BS to MS Track
- Industrial Engineering MS, Healthcare Systems Engineering Track ►

Curriculum

This program can be taken entirely through the Center for Online and Virtual Education (COVE), which provides video-streamed versions of classes over the Internet. More information about this program can be found at <http://www.cecs.ucf.edu/COVE/> or (407) 823-3814.

The Industrial Engineering MS program offers both thesis and nonthesis options with each requiring 30 credit hours of courses. The program is flexible to enable students to model their plan of study to suit their needs and future work or career goals. All students must develop a plan of study with the graduate program director that meets with departmental approval. At least one-half of the courses (including thesis hours) required in the master's program of study must be at the 6000 level or higher. A cumulative grade-point average of B (3.0) must be maintained in the entire program of study.

Students on assistantships must take 9 credit hours per semester (Fall, Spring) to satisfy the university's requirement for full-time status. Most students working full time take 6 credit hours per semester. At that rate, the program can be completed in 6 semesters or less. However, students with more time available and with an early start on a thesis, if applicable, can finish the program in 3 semesters.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

The Industrial Engineering MS program requires an undergraduate degree in engineering, mathematics, computer science, statistics, physics, quantitative management or similar field.

Outstanding students with degrees in other disciplines such as business, economics or computer/information sciences may also be considered on a case-by-case basis, provided they have significant work experience and/or very high academic standing.

Regardless of the undergraduate degree, all applicants must have completed the following prerequisites:

- Mathematics through Calculus II (MAC 2312 or equivalent)
- An undergraduate course in engineering probability and statistics.
- In addition, they are expected to be familiar with at least one programming language (such as C, FORTRAN, Java, Visual BASIC, C++, etc.) and common computer skills and tools such as word processors and spreadsheets.

Required Courses: 12 Credit Hours

- ESI 5219 - Engineering Statistics **3 Credit Hours**
- EIN 5140 - Project Engineering **3 Credit Hours**
- EIN 6357 - Advanced Engineering Economic Analysis **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**

Elective Courses: 12 Credit Hours

All students, both thesis and nonthesis, must take 12 credit hours of electives after consultation with their adviser.

Thesis Option: 6 Credit Hours

The thesis option requires 6 credit hours of thesis. Thesis students must complete an independent research study and write and successfully defend a thesis according to program guidelines.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website (<http://www.cecs.ucf.edu/graddefense/>) and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.

- EIN 6971 Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires a capstone course and an additional nonrestricted elective course that supports the student's area of research and study interests. The capstone course should be completed toward the end of the student's graduate plan of study. As part of the requirements of this course, students will complete an independent capstone project on a topic relevant to the industrial and systems engineering field and approved by the instructor. Students are expected to use and leverage knowledge obtained in the program to complete the project. This course serves as the culminating experience for the students and shows their engagement in independent learning.

- EIN 6950 - Industrial and Systems Engineering Capstone **3 Credit Hours**
- Elective course **3 Credit Hours**

IEMS Electives

The program requirements are flexible enough to allow the students to tailor the coursework according to their desired educational and career goals. With the approval of their adviser and/or the graduate program director, students may select from the following groups of courses to satisfy the needs of their research goals or career objectives. To assist the students in achieving these goals and objectives, courses are grouped below to suggest focus areas, only as a guide to assist in advising and course selection. They are not intended to restrict elective choices among specialization areas as the intent of the program is to help graduate students maintain an integrated approach to their studies. The listing of these courses does not guarantee that they will be offered by the department in a particular year or semester.

In addition to the courses listed below, students may be allowed to take courses from the following disciplines at UCF, with the approval of the graduate program director, as an elective in their graduate program of study:

- Other Engineering programs
- Computer Science
- Mathematics
- Statistics
- Business Administration or Management

Human Systems Engineering/Ergonomics

- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EIN 6271 - Human Reliability **3 Credit Hours**

Quality and Production Systems

- ESI 6225 - Quality Design and Control **3 Credit Hours**
- ESI 6224 - Quality Management **3 Credit Hours**
- EIN 6336 - Production and Inventory Control **3 Credit Hours**
- EIN 5356 - Cost Engineering **3 Credit Hours**
- ESI 5227 - Total Quality Improvement **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**

Management Systems

- EIN 6182 - Engineering Management **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- EIN 6370 - Innovation in Engineering Design **3 Credit Hours**
- EIN 6339 - Operations Engineering **3 Credit Hours**
- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**

Simulation, Optimization and Modeling

- ESI 6336 - Queueing Systems **3 Credit Hours**
- ESI 5306 - Operations Research **3 Credit Hours**
- ESI 6418 - Linear Programming and Extensions **3 Credit Hours**
- ESI 6532 - Object-Oriented Simulation **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**

- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- EIN 6936 - Seminar in Advanced Industrial Engineering **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**

Systems Engineering

- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 5359 - Risk Assessment and Management **3 Credit Hours**
- EIN 6215 - System Safety Engineering and Management **3 Credit Hours**
- EIN 5346 - Engineering Logistics **3 Credit Hours**
- ESI 6891 - IEMS Research Methods **3 Credit Hours**
- ESI 5236 - Reliability Engineering **3 Credit Hours**

Equipment Fee

Full-time students in the Industrial Engineering MSIE program pay a \$58 equipment fee each semester that they are enrolled. Part-time students pay \$29 each semester that they are enrolled.

Independent Learning

The Independent Learning requirement is met by successful completion of a thesis or the capstone course.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vita
- Goal statement
 - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed.
 - If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.
 - The goal statement should be between 500 and 1,000 words.
- Two letters of recommendation
 - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the

applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

Industrial Engineering MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mansoor Mollaghasemi PhD

Associate Professor

mollagha@ucf.edu

Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Industrial Engineering MS, Accelerated BS to MS Track

College: Engineering and Computer Science	Degree: MS
Department: Industrial Engineering and Management Systems	Option: Thesis, Nonthesis
Program Websites: http://www.iems.ucf.edu/	

Track Description

This track will not be accepting applications or enrolling new students effective Fall 2018.

The accelerated undergraduate/graduate program in Industrial Engineering allows highly qualified undergraduate majors in Industrial Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in Industrial Engineering in five instead of six years for students enrolled in full-time course work.

Industrial Engineering focuses on the design and improvement of systems, products, and processes. A total systems approach is used to optimize the various aspects of operations in both manufacturing and service industries. Industrial engineers use many analytical approaches to improve productivity, safety, and quality of working life while reducing operating costs.

The Industrial Engineering graduate programs are structured to support the emergence of Central Florida as a national center of high technology as well as supporting the diverse service industries in the region and throughout the nation.

Additional information can be found at www.iems.ucf.edu.

Curriculum

The BSIE is awarded after fulfilling all university requirements including completing 128 credit hours of course work and 71 credit hours of engineering courses. The MSIE is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Up to 12 credit hours of approved 5000-level courses with grades "B" (3.0) or better may be counted toward both the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Industrial Engineering are as follows:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "B" (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major.

Undergraduate Requirements

Please see the current edition of the Undergraduate Catalog or the academics section of the College of Engineering and Computer Science website, link given above, for additional information about this program

Graduate Requirements

Please see Industrial Engineering MSIE graduate program for additional requirements.

Equipment Fee

Students in the Industrial Engineering MS program pay a \$90 equipment fee each semester that they are enrolled. For part-time students, the equipment fee is \$45 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis. Nonthesis students will complete a comprehensive exam, as specified in the Industrial Engineering MS program requirements.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Industrial Engineering allows highly qualified University of Central Florida undergraduate majors in Industrial Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to MSIE. Additional information about this track may be located at: <http://www.cecs.ucf.edu/current-students/bs-ms-program>.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Industrial Engineering or other engineering ONLY.
- Two letters of recommendation from two individual who are familiar with the applicant's capabilities to enter and succeed into his/her graduate studies and to perform graduate research.
- Curriculum Vitae/resume.
- Statement of educational, research, and professional career objectives. The statement should explain the applicant's future career and educational goals, reasons behind seeking the degree, and why he/she believes that this degree best suits their interests.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

Accelerated BS to MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mansoorh Mollaghasemi PhD

Associate Professor

mollagha@ucf.edu

Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu
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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Industrial Engineering MS, Healthcare Systems Engineering Track ►

College: Engineering and Computer Science	Degree: MS
Department: Industrial Engineering and Management Systems	Option: Nonthesis
Program Websites: http://www.iems.ucf.edu	

Track Description

The Healthcare Systems Engineering track is a fully online degree program designed to be completed within two years. This 30-credit-hour program trains students to implement, manage and introduce systematic changes to improve patient care and enhance utilization of organizational resources. This unique program is offered in response to the growing needs of the healthcare industry.

Students will receive a Master of Science, offered by the Department of Industrial Engineering and Management Sciences at the College of Engineering and Computer Science, in the Healthcare Systems Engineering Track.

The future of healthcare will need leaders who are passionate about implementing, managing and refining healthcare systems to improve patient care and reduce overall cost. This degree can help students realize their leadership potential, fuel their passion for healthcare innovation, and provide the necessary tools needed to make this systemic change a reality. Through the ideology and principles of systems engineering taught in this degree, individuals learn the specialized skills needed to foster operational change within healthcare organizations.

By graduation, students will be able to help healthcare organizations to:

- Conduct analyses of large-scale social and ecological systems across the healthcare sector
- Assess and mitigate risks throughout organizational processes and relationships
- Analyze risks to individual and public health impacted by issues in the healthcare system
- Bring evidence-based thinking and analysis to process and system change
- Develop and manage a quality management system across an organizational setting
- Plan and conduct change initiatives that directly impact quality and costs

- Design and build detailed computer simulations of healthcare organizations and health technology assessments
- Adapt information systems to improve management planning and control

A sampling of career opportunities include:

Healthcare Management Engineer, Operational Excellence Project Manager, Systems Redesign Consultant, Lean Specialist, Process Improvement Consultant, Continuous Improvement Specialist and Healthcare Analyst

Please note: Industrial Engineering (MS) - Healthcare Systems Engineering may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-MS.pdf>.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Healthcare Systems Engineering (HCSE) track requires 30 credit hours of courses beyond the bachelor's degree. This program offers only the nonthesis option.

For information about the program, please contact the HSE Director Dr. Vernet Lasrado (vernet.lasrado@ucf.edu).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

An undergraduate course in probability and statistics

Required Courses: 30 Credit Hours

All of the following courses are required for completion of the Healthcare Systems Engineering program.

- HSC 6636 - Issues and Trends in the Health Professions **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- EIN 6357 - Advanced Engineering Economic Analysis **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- ESI 5359 - Risk Assessment and Management **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- ESI 6224 - Quality Management **3 Credit Hours**
- ESI 6609 - Industrial Engineering Analytics for Healthcare **3 Credit Hours**
- EIN 5140 - Project Engineering **3 Credit Hours**

Cost Per Credit Hour

This Master of Science, both for in-state and out-of-state, costs \$1,239.16 per credit hour totaling \$37,174.80* for the program which includes tuition and fees.

*Fee subject to change.

Independent Learning

The Independent Learning requirement is met by successful completion of the research studies required in individual courses and EIN 5140 - Project Engineering (Capstone). These research studies require that students integrate material from all the courses in their program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vita
 - Goal statement
 - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed. The goal statement should be between 500 and 1,000 words.
- Two letters of recommendation
 - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.
- International Students
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
 - Given the fully online nature of this degree program, International students will not receive an F1 visa, hence you will not take this degree program in the US. International students are free to take this degree program from their home or any country besides the US.
- Applications are accepted for the fall and spring terms only.
- Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

Healthcare Systems Engineering	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
<p>*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. FALL DOMESTIC DEADLINE EXTENDED TO AUG. 1</p>				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Vernet Lasrado PhD

Vernet.Lasrado@ucf.edu
Telephone: 404-769-5264
Engineering II, 419

Mansooreh Mollaghasemi PhD

Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

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Millican Hall 230
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Institution Codes

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ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Industrial Engineering MSIE ►

College: Engineering and Computer Science	Degree: MSIE
Department: Industrial Engineering and Management Systems	Option: Thesis, Nonthesis
Program Websites: http://www.iems.ucf.edu/	
Graduate Program Handbook	

Program Description

The Department of Industrial Engineering and Management Systems offers a Master of Science in Industrial Engineering (MSIE) degree focusing on the design and improvement of systems, products, and processes. This degree is available to those applicants with a bachelor of science degree in Industrial Engineering (BSIE) or other Engineering degree ONLY.

A total systems approach is used to optimize the various aspects of operations in both manufacturing and service industries. Industrial engineers use many analytical approaches to improve productivity, safety, and quality of working life while reducing operating costs. The MSIE curriculum builds on an undergraduate engineering degree to develop a stronger systems focus and analytical capability.

The industrial engineering graduate programs are structured to support the emergence of Central Florida as a national center of high technology as well as supporting the diverse service industries in the region and throughout the nation.

Many of the graduate courses offered by the department or required in the MSIE program are offered through the Florida Engineering Educational Delivery System (FEEDS), which provides video-streamed versions of classes over the Internet.

Please note: Industrial Engineering (MSIE) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-MSIE.pdf>.

Curriculum

This program can be taken entirely through the Center for Online and Virtual Education (COVE), which provides video-streamed versions of classes over the Internet. More information about this program can be found at <http://www.cecs.ucf.edu/COVE/> or (407) 823-3814.

The Industrial Engineering MSIE degree requires an undergraduate degree in Industrial Engineering or any other Engineering degree. Students with undergraduate degrees outside of industrial engineering may be required to take additional prerequisites. The program offers both thesis and nonthesis options with each requiring 30 credit hours of courses. At least half of the regular coursework must be at the 6000 level. A cumulative grade-point average of B must be maintained in the entire program of study.

Thesis Option: The thesis option requires 12 credit hours of required courses, 12 credit hours of electives and 6 thesis credit hours. Students must also write and successfully defend a thesis.

Nonthesis Option: The nonthesis option requires 12 credit hours of required courses and 18 credit hours of electives. Research studies are required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in the profession in order to help students acquire knowledge and skills pertaining to research-based best practices. In addition, students may engage in directed independent studies, directed research or a research report during their studies. A program of study must be developed with the graduate program director and meet with departmental approval. At least one-half of the credit hours (including thesis hours) required in a master's program of study must be at the 6000 level or higher. Students on assistantships must take 9 credit hours per semester

to satisfy the university's requirement for full-time status. Most students working full time take 6 credit hours per semester. At that rate, the program can be completed in 6 semesters or less. However, students with more time available and with an early start on a thesis, if applicable, can finish the program in 3 semesters.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

Students with undergraduate degrees in industrial engineering or other engineering degrees are encouraged to apply for admission. Graduates from non-engineering curricula may apply to obtain the MS degree.

All applicants are expected to have completed the following prerequisites during their undergraduate engineering education:

- Computer programming capability. Proficiency with MS Office expected. C++, Visual BASIC, or Java recommended.
- Mathematics through Calculus II (MAC 2312 or equivalent)
- Undergraduate probability and statistics for engineers (STA 3032 or equivalent)

Required Courses: 12 Credit Hours

- ESI 6551 - Systems Engineering **3 Credit Hours**
- ESI 6224 - Quality Management **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**

Select one of the following courses:

- ESI 5306 - Operations Research **3 Credit Hours**
- ESI 6418 - Linear Programming and Extensions **3 Credit Hours**

Elective Courses: 12 Credit Hours

All students, both thesis and nonthesis, must take 12 credit hours of electives after consultation with their adviser.

Thesis Option: 6 Credit Hours

The thesis option requires an additional 6 credit hours of thesis. Thesis students must complete an independent research project and write and successfully defend a thesis describing the project. Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website (<http://www.cecs.ucf.edu/graddefense/>) and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.

- EIN 6971 Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires a capstone course and an additional unrestricted elective course that supports the student's area of research and study interests. The capstone course should be completed toward the end of the student's graduate plan of study. As part of the requirements of this courses, students will complete an independent capstone project on a topic relevant to the industrial and systems engineering field and approved by the instructor. Students are expected to use and leverage knowledge obtained in the program to complete the project. This course serves as the culminating experience for students and shows their engagement in independent learning.

- EIN 6950 - Industrial and Systems Engineering Capstone **3 Credit Hours**
- Elective course **3 Credit Hours**

IEMS Electives

The program requirements are flexible enough to allow the students to tailor the coursework according to their desired educational and career goals. With the approval of their adviser and/or the graduate program director, students may select from the following groups of courses to satisfy the needs of their research goals or career objectives. To assist the students in achieving these goals and objectives, courses are grouped below to suggest focus areas, only as a guide to assist in advising and course selection. They are not intended to restrict elective choices among specialization areas as the intent of the program is to help graduate students maintain an integrated approach to their studies. The listing of these courses does not guarantee that they will be offered by the department in a particular year or semester.

In addition to the courses listed below, students may be allowed to take courses from the following disciplines at UCF, with the approval of the graduate program director, as an elective in their graduate program of study:

- Other Engineering programs
- Computer Science
- Mathematics
- Statistics
- Business Administration or Management

Human System Engineering/Ergonomics

- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EIN 6271 - Human Reliability **3 Credit Hours**

Quality and Production Systems

- ESI 6225 - Quality Design and Control **3 Credit Hours**
- EIN 6336 - Production and Inventory Control **3 Credit Hours**
- EIN 5356 - Cost Engineering **3 Credit Hours**
- ESI 5227 - Total Quality Improvement **3 Credit Hours**

Management Systems

- EIN 6182 - Engineering Management **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- EIN 6370 - Innovation in Engineering Design **3 Credit Hours**
- EIN 6339 - Operations Engineering **3 Credit Hours**

- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**

Simulation, Optimization and Modeling

- ESI 6336 - Queueing Systems **3 Credit Hours**
- ESI 6532 - Object-Oriented Simulation **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- EIN 6936 - Seminar in Advanced Industrial Engineering **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**

Systems Engineering

- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 5359 - Risk Assessment and Management **3 Credit Hours**
- EIN 6215 - System Safety Engineering and Management **3 Credit Hours**
- ESI 5236 - Reliability Engineering **3 Credit Hours**
- EIN 5346 - Engineering Logistics **3 Credit Hours**
- ESI 6891 - IEMS Research Methods **3 Credit Hours**

Equipment Fee

Full-time students in the Industrial Engineering MSIE program pay a \$58 equipment fee each semester that they are enrolled. Part-time students pay \$29 each semester that they are enrolled.

Independent Learning

A research project serves as the independent learning experience for thesis students. Nonthesis students are required to complete the department's capstone course toward the end of their program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vita
- Goal statement
 - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed.
 - If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty

member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.

- The goal statement should be between 500 and 1,000 words.
- Two letters of recommendation
 - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

Industrial Engineering MSIE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mansoorah Mollaghasemi PhD

Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Instructional Design and Technology MA ►

College: Community Innovation and Education	Degree: MA
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/instructional-design-and-technology/	
Graduate Program Handbook	

Program Description

The Master of Arts in Instructional Design and Technology program is designed to meet the needs of working professionals in various settings. It enables candidates to complete courses in traditional, Web, and mixed-mode (with one face-to-face meeting every other week). The program offers tracks in educational technology, instructional systems, and e-learning, enabling candidates to pursue careers in business and industry, K-12, and higher education.

Please Note: Instructional Design and Technology, MA may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Program Tracks

- Instructional Design and Technology MA, Educational Technology Track ►
- Instructional Design and Technology MA, e-Learning Track ►
- Instructional Design and Technology MA, Instructional Systems Track ►

Curriculum

All three tracks of the Instructional Design and Technology MA require a minimum of 36 credit hours beyond the bachelor's degree, including 12 credit hours of instructional technology core courses, 12 credit hours of professional specialization, nine credit hours of electives, and three credit hours of practicum.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Richard Hartshorne PhD

Professor

richard.hartshorne@ucf.edu

Telephone: 407-823-1861

ED 209-E

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
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Graduate Financial Aid

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Instructional Design and Technology MA, e-Learning Track ►

College: Community Innovation and Education	Degree: MA
Department: Learning Sciences and Educational Research	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/lser/instructional-design-and-technology/	
Graduate Program Handbook	

Track Description

The e-Learning track in the Instructional Design and Technology MA program is designed for educators in K-12 and higher education, trainers, and instructional designers.

The program focuses on teaching the design, delivery, and evaluation of high-quality e-learning materials for in-service, preservice teachers and online trainers for both totally online and blended (hybrid) learning environments. Candidates gain employment in business and industry, K-12, and higher education as organizations across sectors work to optimize the use of telecommunication technologies to enhance individual and collaborative learning. The e-Learning program may be completed totally online or in mixed mode. For more information, visit education.ucf.edu/insttech/.

Please note: Instructional Design and Technology, e-learning (MA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The e-Learning track in the Instructional Design and Technology MA program requires a minimum of 36 credit hours beyond the bachelor's degree. The curriculum includes 12 credit hours of instructional technology core courses, 12 credit hours of professional specialization, 9 credit hours of electives, and three credit hours of practicum.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—24 Credit Hours

Core—12 Credit Hours

- EME 6055 - Current Trends in Instructional Technology **3 Credit Hours**
- EME 6062 - Research in Instructional Technology **3 Credit Hours**

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours** or
- EDF 6401 - Statistics for Educational Data **3 Credit Hours** or
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours** or
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**

- EME 6613 - Instructional System Design **3 Credit Hours**

Specialization—12 Credit Hours

*EME 6417 (fall) must be taken before EME 6458 (spring); these courses are sequential, where the work product begins in EME 6417 and is completed during EME 6458.

- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6457 - Distance Education: Technology Process Product **3 Credit Hours**
- EME 6417 - Interactive Online and Virtual Teaching Environments **3 Credit Hours**
- EME 6458 - Virtual Teaching and the Digital Educator **3 Credit Hours**

Elective Courses—9 Credit Hours

Courses not listed below require adviser approval. All ENC courses require approval from the English Department.

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- EME 6607 - Planned Change in Instructional Technology **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- IDS 6503 - International Trends in Instructional Systems **3 Credit Hours**
- IDS 6504 - Adult Learning **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 5255C - Interactive Simulation **3 Credit Hours**
- ENC 6216 - Editing Professional Writing **3 Credit Hours**

- ENC 6261 - Technical Writing, Theory and Practice **3 Credit Hours**
- ENC 6296 - Interactive Design in Technical Communication **3 Credit Hours**
- DIG 6432 - Transmedia Story Creation **3 Credit Hours**
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**
- EDF 6884 - Education as A Cultural Process **3 Credit Hours**
- EDF 6886 - Multicultural Education **3 Credit Hours**
- EGI 6051 - Understanding the Gifted/Talented Student **3 Credit Hours**
- ESE 6217 - Curriculum Design **3 Credit Hours**
- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**

Practicum—3 Credit Hours

- EME 6940 - Theory into Practice in Educational Technology **3 Credit Hours**

Independent Learning

Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Two letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more information about the MA program, visit the program website at <http://insttech.education.ucf.edu>.

Application Deadlines

e-Learning	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Glenda Gunter PhD
Professor
glenda.gunter@ucf.edu
ED 322-P

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
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GMAT: RZT-HT-58
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Grad Fellowships

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finaid@ucf.edu
<http://finaid.ucf.edu>

Instructional Design and Technology MA, Educational Technology Track ►

College: Community Innovation and Education	Degree: MA
Department: Learning Sciences and Educational Research	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/lser/instructional-design-and-technology/	

Track Description

The Educational Technology track is designed for classroom teachers who want to increase their technical skills and become highly skilled at successfully integrating technology into the curriculum as well as develop leadership skills necessary to become site-based technology coordinators in K-12 schools, colleges, and universities.

The knowledge gained through the Educational Technology program allows candidates to seek new career paths in education. Graduates from this program have the skills to become computer teachers, instructors at the community and college and university level and instructional designers. The program does not lead to any current certification in Florida.

Please note: Instructional Design and Technology, Ed Tech (MA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Educational Technology track in the Instructional Design and Technology MA program requires a minimum of 36 credit hours beyond the bachelor's degree. The curriculum includes 12 credit hours of instructional technology core courses, 12 credit hours of professional specialization, nine credit hours of electives, and three credit hours of practicum.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—24 Credit Hours

Core—12 Credit Hours

- EME 6055 - Current Trends in Instructional Technology **3 Credit Hours**
- EME 6062 - Research in Instructional Technology **3 Credit Hours**

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours** or
- EDF 6401 - Statistics for Educational Data **3 Credit Hours** or
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours** or
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**

- EME 6613 - Instructional System Design **3 Credit Hours**

Professional Specialization Courses—12 Credit Hours

- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**
- EME 6405 - Adapting and Integrating Innovative Technologies in Education **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6602 - Integration of Technology into the Learning Environments **3 Credit Hours**

Elective Courses—9 Credit Hours

Students must choose at least 9 credit hours of electives. Electives in current certification area, technology, or other as approved by adviser. Courses not listed below require adviser approval. All ENC courses require approval from English Department.

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- EME 6209 - Multimedia Instructional Systems II **3 Credit Hours**
- EME 6457 - Distance Education: Technology Process Product **3 Credit Hours**
- EME 6607 - Planned Change in Instructional Technology **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- IDS 6504 - Adult Learning **3 Credit Hours**
- ENC 6216 - Editing Professional Writing **3 Credit Hours**
- ENC 6261 - Technical Writing, Theory and Practice **3 Credit Hours**

- ENC 6296 - Interactive Design in Technical Communication **3 Credit Hours**
- DIG 6432 - Transmedia Story Creation **3 Credit Hours**
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours**
- EDF 6884 - Education as A Cultural Process **3 Credit Hours**
- EDF 6886 - Multicultural Education **3 Credit Hours**
- EGI 6051 - Understanding the Gifted/Talented Student **3 Credit Hours**
- ESE 6217 - Curriculum Design **3 Credit Hours**
- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**

Practicum—3 Credit Hours

Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

- EME 6940 - Theory into Practice in Educational Technology **3 Credit Hours**

Independent Learning

Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Two letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more information about the MA program, visit the program website at <http://ccie.ucf.edu/lser/instructional-design-and-technology>.

Application Deadlines

Educational Technology	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Richard Hartshorne PhD

Professor

richard.hartshorne@ucf.edu

Telephone: 407-823-1861

ED 209-E

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

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Institution Codes

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Graduate Financial Aid

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Instructional Design and Technology MA, Instructional Systems Track ►

College: Community Innovation and Education	Degree: MA
Department: Learning Sciences and Educational Research	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/lser/instructional-design-and-technology/	
Graduate Program Handbook	

Track Description

The Instructional Systems track in the Instructional Design and Technology MA program is designed for prospective and practicing instructional designers, training specialists and training directors/managers in business, industry, government, or other settings where training, professional development and lifelong learning takes place.

Candidates develop expertise in how and why people learn, how to stimulate and facilitate learning, and in the use of alternative instructional delivery systems. Candidates analyze training requirements and design, develop, evaluate, and manage training and educational programs using of current and emerging technologies. The Instructional Systems program may be completed totally online or in mixed mode.

Please note: Instructional Design and Technology, Instructional Systems (MA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Instructional Systems track in the Instructional Design and Technology MA program requires a minimum of 36 credit hours beyond the bachelor's degree. The curriculum includes 12 credit hours of instructional technology core courses, 12 credit hours of professional specialization, 9 credit hours of electives, three credit hours of practicum, and a comprehensive exam taken during the last semester of coursework.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—24 Credit Hours

Core—12 Credit Hours

- EME 6055 - Current Trends in Instructional Technology **3 Credit Hours**
- EME 6062 - Research in Instructional Technology **3 Credit Hours**

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours** or
- EDF 6401 - Statistics for Educational Data **3 Credit Hours** or
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours** or
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**

- EME 6613 - Instructional System Design **3 Credit Hours**

Professional Specialization Courses—12 Credit Hours

- EME 6226 - Instructional Development and Evaluation **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6607 - Planned Change in Instructional Technology **3 Credit Hours**
- EME 6705 - Administration of Instructional Systems **3 Credit Hours**

Elective Courses—9 Credit Hours

Courses not listed below require adviser approval. All ENC courses require approval from the English department.

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- EME 6209 - Multimedia Instructional Systems II **3 Credit Hours**
- EME 6457 - Distance Education: Technology Process Product **3 Credit Hours**

- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- EME 6646 - Instructional Game Design for Training and Education **3 Credit Hours**
- IDS 6503 - International Trends in Instructional Systems **3 Credit Hours**
- IDS 6504 - Adult Learning **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- ENC 6216 - Editing Professional Writing **3 Credit Hours**
- ENC 6261 - Technical Writing, Theory and Practice **3 Credit Hours**
- ENC 6296 - Interactive Design in Technical Communication **3 Credit Hours**
- DIG 6432 - Transmedia Story Creation **3 Credit Hours**
- DIG 6136 - Design for Interactive Media **3 Credit Hours**
- DIG 6551 - Theory and Practice of Interactive Storytelling **3 Credit Hours**

Practicum—3 Credit Hours

Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

- EME 6940 Theory into Practice in Instructional Systems **3 Credit Hours**

Independent Learning

Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Three letters of recommendation.
- Personal letter of intent stating professional and academic goals and why you want to attend our program.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more information about the MA program, visit the program website at <http://education.ucf.edu/insttech>.

Application Deadlines

Instructional Systems	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Atsusi Hirumi PhD
 Professor
 atsusi.hirumi@ucf.edu
 ED 322-P

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Interactive Entertainment MS

College: Sciences	Degree: MS
Department: Nicholson School of Communication and Media	Option: Nonthesis
Program Websites: https://fiea.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master's of Science in Interactive Entertainment at UCF's Florida Interactive Entertainment Academy (FIEA) teaches artists, programmers, and producers the techniques, tools, and skills to succeed in the gaming industry. The program provides specific skills in the area of game design, programming, 3-D artistry, as well as essential skills such as problem solving, teamwork, and project management.

FIEA provides a team-based, industry-oriented education in a world-class facility located at the UCF Downtown campus in Orlando. Student production teams are mentored by industry trained faculty who provide instruction in game design, level design, technical design, creative collaboration, rapid prototyping, 3-D animation and modeling, technical

art, motion capture, software engineering, legal and ethical issues, preproduction, and postmortems. Graduates have access to internship and venture opportunities and job interviews with game and media companies from across the country.

Curriculum

The Interactive Entertainment MS degree requires a minimum of 30 credit hours beyond the bachelor's degree including 12 credit hours of core courses, 9 credit hours of specialization, a practicum and a capstone experience.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 24 Credit Hours

Core: 12 Credit Hours

The foundation of the degree is the four-course core sequence that focuses on team-based learning. This sequence is designed to provide declarative, procedural, and strategic knowledge in a variety of issues related to game design. These include creative collaboration, rapid prototyping, 3-D animation and modeling, documentation, software engineering, legal and ethical issues, preproduction, and postmortems.

- DIG 5529C - Production for Media **3 Credit Hours**
- DIG 5548C - Rapid Prototype Production I **3 Credit Hours**
- DIG 5856 - Experimentation, Application and Innovation in Games **3 Credit Hours**
- DIG 6547C - Preproduction and Prototyping **3 Credit Hours**

Specialization: 9 Credit Hours

Specialization courses help prepare students in their chosen field (Art, Production or Programming) by covering the details of each discipline. Art classes help students develop aesthetic and technical skills necessary to create compelling visuals for the entertainment industry. Programming classes focus on software engineering techniques as they apply to interactive entertainment products, while production classes focus on the specifics of game design as well as project management.

Students take all three courses in their chosen specialization.

Art Specialization

- DIG 5348C - Digital Asset Creation **3 Credit Hours** Fall
- DIG 6559C - Advanced Digital Asset Creation **3 Credit Hours** Spring
- DIG 6589C - Digital Asset Portfolio Development **3 Credit Hours** Summer

Production Specialization

- DIG 5557C - Production and Design I **3 Credit Hours** Fall
- DIG 6558 - Production and Design II **3 Credit Hours** Spring
- DIG 6099C - Media Distribution **3 Credit Hours** Summer

Programming Specialization

- DIG 5637 - Game Programming Fundamentals **3 Credit Hours** Fall
- DIG 6638 - Advanced Game Programming **3 Credit Hours** Spring
- DIG 6635 - Applied Programming Mechanics **3 Credit Hours** Summer

Capstone: 3 Credit Hours

The capstone experience applies the concepts and theories learned to produce a large-scale project. The target deliverable is a playable demonstration of a game that simulates the core experience and demonstrates the key features of the project's vision. The course concludes with a special event premiering the final project to the FIEA community and invited guests.

- DIG 6718C - Interactive Entertainment Project **3 Credit Hours**

Practicum: 6 Credit Hours

The practicum is supervised training supplementing theoretical and practical experiences involving new research developments or partnerships within the gaming industry. Students may participate on a research team exploring new ideas in interactive entertainment with industry partners, working at an on-site internship with a game company, developing a start-up entity, or working with a faculty member on research in an area of interest.

- DIG 6944C - Game Design Practicum **6 Credit Hours** or
- DIG 6947C - Digital Venture Practicum **6 Credit Hours**

Independent Learning

Both the capstone course and the practicum provide independent learning experiences. The capstone experience is a project-based class that features a game demonstration. The practicum allows students to work with industry partners, in an internship, starting a new venture, or to conduct research with a faculty member.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A portfolio of prior work as it relates to their area of specialization (art, programming, production, etc.) sent directly to the Florida Interactive Entertainment Academy.
- Applicants must submit 3 personal references. These references should be willing and able to attest to your academic, professional and personal achievements. These references need to include the following info:
 - Reference Name
 - Email address
 - Phone number
 - Relationship to applicant

This program admits students in the fall semesters into production teams. Students will be selected based on the skills they possess and contributions they can make to the production team.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Because of the high volume of portfolios received, we regret that we cannot offer individual feedback on the materials that are submitted as part of the application process.

Application Deadlines

Interactive Entertainment MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Benjamin Noel

benjamin.noel@ucf.edu
 Telephone: 407-235-3612
 CMB 115N

FIEA Admissions

fieaadmission@ucf.edu
 Telephone: 407-235-3580
 CMB 115F

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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finaid@ucf.edu
<http://finaid.ucf.edu>

Interdisciplinary Studies MA

College: Graduate Studies	Degree: MA
Department: Interdisciplinary Studies	
Program Websites: https://www.graduate.ucf.edu/IDS/	

Program Description

The Master of Arts in Interdisciplinary Studies is a unique program designed for students who want to develop their own precision degree program by combining areas of study traditionally associated with a Master of Arts (Humanities, Social Sciences, Communication, etc.). Students have the flexibility to create an individually tailored plan by choosing two concentrations that culminate in either a thesis or nonthesis experience based on their future aspirations.

The Nonthesis Track culminates in a capstone experience that prepares students for applied, non-research oriented careers.

The Thesis Track culminates in a scholarly publication that includes original research undertaken during your time as a graduate student. This provides excellent preparation for the future pursuit of a doctoral degree or research-oriented career.

Program Tracks

- Interdisciplinary Studies MA, Nonthesis Track
- Interdisciplinary Studies MA, Thesis Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Elizabeth Smock EdD
gradids@ucf.edu
Telephone: 407-823-2853
MH 230

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

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 finaid@ucf.edu
<http://finaid.ucf.edu>

Interdisciplinary Studies MA, Nonthesis Track

College: Graduate Studies	Degree: MA
Department: Interdisciplinary Studies	Option: Nonthesis
Program Websites: https://www.graduate.ucf.edu/IDS/	
Graduate Program Handbook	

Track Description

The Nonthesis Track in the Master of Arts in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MA degrees. This track can combine a variety of concentrations and culminates in a capstone experience. The precision program is designed to help students prepare for applied, non-research oriented careers.

This is an excellent program for a number of endeavors appropriate for the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.

Curriculum

The Nonthesis Track in the Interdisciplinary Studies MA program requires 33 credit hours, including 9 credit hours of required courses and 24 credit hours of electives. The elective courses focus on the student's chosen concentrations and culminate in a capstone experience: a project, internship, or comprehensive examination. The choice of capstone experience depends on the student's individual needs and goals.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

The Master of Arts in Interdisciplinary Studies program is designed for students interested in an interdisciplinary precision experience who develop concentrations for their plan of study through courses traditionally associated with MA degrees.

Coursework must be selected so that at least 50 percent of credit hours in the program is taken at the 6000 level. Students must earn course grades of "B" or higher to gain credit toward their master's degree.

Required Courses: 9 Credit Hours

- IDS 6308 - Ways of Knowing **3 Credit Hours**
- A critical thinking and writing course in one of the chosen concentrations or in an area that supports the plan of study (3 credit hours)
- A research methods course in one of the chosen concentrations or in an area that supports the plan of study (3 credit hours)

Elective Courses: 24 Credit Hours

Students take a minimum of 24 credit hours of electives, including two concentrations of 9 credit hours each of restricted electives and 6 credit hours of unrestricted electives. The unrestricted electives can be from either concentration or additional areas that support the capstone project or intended use of the degree. Students who choose one of the pre-approved concentrations such as Diversity and Inclusion or Project Management can choose courses from those course listings on our website. Those students do not need to list 2 concentrations.

Course and concentration selections are done in consultation with and with approval from the program director or academic coordinator.

Restricted Elective Courses: 18 Credit Hours

- Three courses in the first concentration (9 Credit Hours)

- Three courses in the second concentration (9 Credit Hours)

Unrestricted Elective Courses: 6 Credit Hours

- Two additional elective courses (6 credit hours)

Capstone

Students choose to complete a project, an internship, or a written comprehensive examination as their capstone experience.

The capstone project should reflect a combination of the two concentrations in the degree by finding an applied policy area, special topic, or issue that crosses both areas. Some examples of project types include: writing a grant proposal for an agency, program evaluation and recommendations, or a "best practices" literature review in a particular area. Students must choose three advisers for the project, one from each concentration area and one from any supporting discipline. The project will be evaluated on a pass/fail basis.

Students who feel an internship will best support their plan of study and professional goals will enroll in IDS 5949 Co-op Interdisciplinary Study (0 credits) and IDS 6949 Co-op Interdisciplinary Study (3 credits) after locating an acceptable internship host site, with the approval of the program coordinator.

The written examination will entail the selection of an exam committee of three faculty who will formulate questions to address both concentration areas. The student will have 48 hours to complete the take-home exam and it should be completed in their final semester of enrollment. The exam will be graded on a pass/fail basis. If the student does not pass both questions with a 70% or higher, the student will have two additional chances to retake the exam with new questions. The exam can be taken only once per semester.

Independent Learning

The program is designed to provide numerous independent learning opportunities. The required methods course will introduce students to research methodology that they will apply to independent research/capstone work. IDS 6308 acquaints students with interdisciplinarity through the use of student-driven analyses, discussions, and presentations. The required critical thinking and writing course involves students in verbal and written discussions, analyses, and critiques of work they create and from the published literature.

Additionally, the completion of the capstone experience will require independent learning that will be evaluated by faculty in the specified disciplines.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.

- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Nonthesis	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Elizabeth Smock EdD

gradids@ucf.edu

Telephone: 407-823-2853

MH 230

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Graduate Fellowships

Grad Fellowships

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<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

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finaid@ucf.edu
<http://finaid.ucf.edu>

Interdisciplinary Studies MA, Thesis Track

College: Graduate Studies	Degree: MA
Department: Interdisciplinary Studies	Option: Thesis
Program Websites: https://www.graduate.ucf.edu/IDS/	
Graduate Program Handbook	

Track Description

The Thesis Track in the Master of Arts in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MA degrees. This precision track can

combine a variety of concentrations and culminates in a research thesis, which provides excellent preparation for a future doctoral degree or a research-oriented career.

The Master of Arts in Interdisciplinary Studies is an excellent program for a number of endeavors in the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.

Curriculum

The Thesis Track in the Master of Arts in Interdisciplinary Studies program requires 33 credit hours, including 6 credit hours of required courses, 18 credit hours of restricted electives, 3 credit hours of an unrestricted elective, and 6 credit hours of thesis research.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Course work must be selected so that at least 50 percent of credit hours in the program is taken at the 6000 level. Students must earn course grades of "B" or higher to gain credit toward the master's degree.

Required Courses: 6 Credit Hours

- IDS 6308 - Ways of Knowing **3 Credit Hours**
- A research methods course in one of the chosen concentrations **3 Credit Hours**

Elective Courses: 21 Credit Hours

Course and concentration selections are done in consultation with and with approval of the program director or academic coordinator, as well as with the student's faculty adviser and thesis committee.

Restricted Elective Courses: 18 Credit Hours

Students take at least 9 credit hours of courses in each of two concentrations for a total of 18 credit hours.

- Electives in the first concentration **9 Credit Hours**
- Electives in the second concentration **9 Credit Hours**

Unrestricted Elective Course: 3 Credit Hours

- Unrestricted elective **3 Credit Hours**

Thesis: 6 Credit Hours

Students should select a faculty adviser and form a thesis committee of two additional members no later than their third semester in the program. Before officially beginning work on the thesis, the student must submit a thesis proposal to the committee for approval. This proposal must cover the thesis topic and plan of approach. By the end of their degree, students will complete 6 credit hours of thesis and successfully defend their thesis. The thesis consists of a common theme with an introduction and literature review, details of the study, and results and conclusions. The thesis must be prepared and submitted in writing as well as presented and defended orally.

- IDS 6971 Thesis **6 Credit Hours**

Independent Learning

The thesis serves as the independent learning experience. In addition, the required methods course introduces students to research methodology that they will apply to their independent research work, and IDS 6308 acquaints them with interdisciplinarity through the use of student-driven analyses, discussions, and presentations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.
- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Thesis	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Elizabeth Smock EdD

gradids@ucf.edu

Telephone: 407-823-2853

MH 230

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

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Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

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finaid@ucf.edu

<http://finaid.ucf.edu>

Interdisciplinary Studies MS

College: Graduate Studies	Degree: MS
Department: Interdisciplinary Studies	
Program Websites: https://www.graduate.ucf.edu/IDS/	
Graduate Program Handbook	

Program Description

The Master of Science in Interdisciplinary Studies is a unique program designed for students who want to develop their own precision degree program by combining areas of study traditionally associated with a Master of Science (Engineering, Life and Physical Sciences, etc.). Students have the flexibility to create an individually tailored plan by choosing two concentrations that culminate in either a thesis or nonthesis experience based on their future aspirations.

The Nonthesis Track culminates in a capstone experience that prepares students for applied, non-research oriented careers.

The Thesis Track culminates in a scholarly publication that includes original research undertaken during your time as a graduate student. This provides excellent preparation for the future pursuit of a doctoral degree or research-oriented career.

Program Tracks

- Interdisciplinary Studies MS, Nonthesis Track
- Interdisciplinary Studies MS, Thesis Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial

assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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<https://funding.graduate.ucf.edu>

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UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

Interdisciplinary Studies MS, Nonthesis Track

College: Graduate Studies	Degree: MS
Department: Interdisciplinary Studies	Option: Nonthesis
Program Websites: https://www.graduate.ucf.edu/IDS/	
Graduate Program Handbook	

Track Description

The Nonthesis Track in the Master of Science in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MS degrees. This track can combine a variety of concentrations and culminates in a capstone experience. The precision program is designed to help students prepare for applied, non-research oriented careers.

The Master of Science in Interdisciplinary Studies is an excellent program for a number of endeavors appropriate for the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.

Curriculum

The Nonthesis Track in the Interdisciplinary Studies MS program requires 33 credit hours, including 9 credit hours of required courses and 24 credit hours of electives. The elective courses focus on the student's chosen concentrations and culminate in a capstone experience of a project, internship, or comprehensive examination. The choice of capstone experience depends on the student's individual needs and goals.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Course work must be selected so that at least 50 percent of credit hours in the program is taken at the 6000 level. Students must earn course grades of "B" or higher to gain credit toward the master's degree.

Required Courses: 9 Credit Hours

- IDS 6308 - Ways of Knowing **3 Credit Hours**
- IDS 6351 - Critical Thinking and Writing **3 Credit Hours**
- A research methods course in one of the chosen concentrations **3 Credit Hours**

Restricted Elective Courses: 24 Credit Hours

Students take a minimum of 24 credit hours of electives, including two concentrations of 9 credit hours each of restricted electives and 6 credit hours of unrestricted electives. The additional electives can be from either

concentration or additional areas that support the capstone project or intended use of the degree. Students who choose one of the pre-approved concentrations such as Diversity and Inclusion or Project Management can choose courses from those course listings on our website. Those students do not need to list 2 concentrations.

Course and concentration selections are done in consultation with and with approval from the program director or academic coordinator.

Restricted Elective Courses: 18 Credit Hours

- Three courses in the first concentration **9 Credit Hours**
- Three courses in the second concentration **9 Credit Hours**

Unrestricted Electives: 6 Credit Hours

- Two additional elective courses **6 Credit Hours**

Capstone

Students choose to complete a project, an internship, or a written comprehensive examination as their capstone experience.

The capstone project should reflect a combination of the two concentrations in the degree by finding an applied policy area, special topic, or issue that crosses both areas. Some examples of project types include: writing a grant proposal for an agency, program evaluation, and recommendations, or a "best practices" literature review in a particular area. Students must choose three advisers for the project—one from each concentration area and one from a complementary discipline. The project will be evaluated on a pass/fail basis.

The written examination will entail the selection of an exam committee of three faculty that will formulate questions to address both concentration areas. The student will have 48 hours to complete the take-home exam and it should be completed in their final semester of enrollment. The exam will be graded on a pass/fail basis. If the student does not pass both questions with a 70% or higher, the student will have two additional chances to retake the exam with new questions. The exam can be taken only once per semester.

Independent Learning

The program is designed to provide numerous independent learning opportunities. The required methods course introduces students to research methodology that they will apply to independent research/capstone work. IDS 6308 acquaints students with interdisciplinarity through the use of student-driven analyses, discussions, and presentations. IDS 6351 engages students in verbal and written discussions, analyses and critiques of work they create and from the published literature.

Additionally, the completion of the capstone experience will require independent learning that will be evaluated by the faculty in the specified disciplines.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.
- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Nonthesis	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Elizabeth Smock EdD

gradids@ucf.edu

Telephone: 407-823-2853

MH 230

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Interdisciplinary Studies MS, Thesis Track

College: Graduate Studies	Degree: MS
Department: Interdisciplinary Studies	Option: Thesis
Program Websites: https://www.graduate.ucf.edu/IDS/	
Graduate Program Handbook	

Track Description

The Thesis Track in the Master of Science in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MS degrees. This precision track can combine a variety of concentrations and culminates in a research thesis, which provides excellent preparation for a future doctoral degree or a research-oriented career.

The Master of Science in Interdisciplinary Studies is an excellent program for a number of endeavors in the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.

Curriculum

The Thesis Track in the Master of Science in Interdisciplinary Studies program requires 33 credit hours, including 6 credit hours of required courses, 18 credit hours of restricted electives, 3 credit hours of an unrestricted elective, and 6 credit hours of thesis research.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Coursework must be selected so that at least 50 percent of credit hours in the program is taken at the 6000 level. Students must earn course grades of "B" or higher to gain credit toward the master's degree.

Required Courses: 6 Credit Hours

- IDS 6308 - Ways of Knowing **3 Credit Hours**
- A research methods course in one of the chosen concentrations **3 Credit Hours**

Elective Courses: 21 Credit Hours

Restricted Elective Courses: 18 Credit Hours

Students take a minimum of 18 credit hours in restricted electives, including two concentrations of 9 credit hours of courses each. Course and concentration selections are done in consultation with and with approval of the program director or academic coordinator, as well as with the student's faculty adviser and thesis committee.

- Three courses in the first concentration **9 Credit Hours**
- Three courses in the second concentration **9 Credit Hours**

Unrestricted Elective Course: 3 Credit Hours

- Unrestricted elective **3 Credit Hours**

Thesis: 6 Credit Hours

Students should select a faculty adviser and form a thesis committee of two additional members by their third semester in the program. Before officially beginning work on the thesis, the student must submit a thesis proposal to the committee for approval. This proposal must cover the thesis topic and plan of approach. By the end of their degree, students will complete 6 credit hours of thesis and successfully defend their thesis. The thesis consists of a common theme with an introduction and literature review, details of the study, and results and conclusions. The thesis must be prepared and submitted in writing as well as presented and defended orally.

- IDS 6971 Thesis **6 credit hours**

Independent Learning

The thesis serves as the independent learning experience. In addition, the required methods course introduces students to research methodology that they will apply to independent research work, and IDS 6308 acquaints students with interdisciplinarity through the use of student-driven analyses, discussions and presentations.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.
- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Thesis	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Elizabeth Smock Edd

gradids@ucf.edu

Telephone: 407-823-2853

MH 230

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

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gradfellowship@ucf.edu
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finaid@ucf.edu
<http://finaid.ucf.edu>

K-8 Mathematics and Science Education MEd

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Websites: https://ccie.ucf.edu/teachered/k-12/	
Graduate Program Handbook	

Program Description

The Master of Education in K-8 Mathematics and Science Education program prepares teachers to improve the quality of teaching and learning in mathematics and science in grades K-8.

Curriculum

The K-8 Mathematics and Science Education MEd program requires a minimum of 36 credit hours beyond the bachelor's degree, including 15 credit hours of core courses, 15 credit hours of specialization content pedagogical courses, and six credit hours of thesis work or the nonthesis option, which focuses on either completing and submitting findings of a research project to a refereed journal or developing a portfolio in preparation for National Board Certification for Teachers.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 30 Credit Hours

Core: 15 Credit Hours

- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- EEX 6342 - Seminar-Critical Issues in Special Education **3 Credit Hours**
- IDS 6937 - Teaching Mathematics and Science Using Reform-Based Practices **3 Credit Hours**
- IDS 6939 - Reforming Curriculum in Mathematics and Science Education **3 Credit Hours**
- IDS 6516 - Leadership Development for Mathematics and Science Teachers **3 Credit Hours**

Specialization: 15 Credit Hours

The following courses provide the content pedagogical courses for the K-8 Mathematics and Science Education MEd program.

- SCE 5836 - Space and Physical Science for Educators **3 Credit Hours**
- ISC 6146 - Environmental Education for Educators **3 Credit Hours**
- MAE 6899 - Seminar in Teaching Mathematics **3 Credit Hours**
- MAE 6318 - Current Methods in Elementary School Mathematics **3 Credit Hours**
- MAE 6641 - Problem Solving and Critical Thinking Skills **3 Credit Hours**

Thesis Option: 6 Credit Hours

- IDS 6971 - Thesis

A thesis is optional for this program; the following information is intended for those choosing to complete a thesis.

The College of Graduate Studies Thesis and Dissertation page (<https://graduate.ucf.edu/thesis-and-dissertation/>) contains information on the university's requirements for dissertation formatting, format review, defenses, final submission, and more. A step-by-step completion guide is also available on the Thesis and Dissertation Services (https://apps.graduate.ucf.edu/ETD_Student_Services/) site.

The following requirements must be met by dissertation students in their final term:

- Submit a properly formatted file for initial format review by the format review deadline
- Submit the Thesis and Dissertation Release Option form well before the defense
- Defend by the defense deadline
- Receive format approval (if not granted upon initial review)
- Submit signed approval form by final submission deadline

- Submit final thesis or dissertation document by final submission deadline

Nonthesis Option: 6 Credit Hours

A non-thesis option is available for this program; the following information is intended for those choosing a non-thesis option, which involves the completion of an action research.

Non-thesis scholars will engage in an **action research** analyzing an issue or challenge in their own classroom teaching practice or school procedures in the areas of mathematics and/or science. An action research project includes the application of research methodologies, literature review, data collection, and data analysis. As part of Capstone Course, the culminating activities are final paper report and poster presentation of the action research project. A research advisor will be selected to collaborate with the scholar in the development of the action research.

In this context, **action research** refers to a wide variety of evaluative, investigative, and analytical research methods designed to diagnose problems or weaknesses (organizational, academic, or instructional) and help teachers develop practical solutions to address them quickly and efficiently. The general goal is to investigate a practical approach that leads to increasingly better results for schools, teachers, or programs.

It typically follows a predefined process; for example: 1. identify a problem to be studied, 2. collect data on the problem, 3. organize, analyze, and interpret the data, 4. develop a plan to address the problem, 5. implement the plan, 6. evaluate the results of the actions taken, 7. identify a new problem, and 8. if necessary, repeat the process.

Unlike more formal research studies, such as those conducted by universities and published in peer-reviewed scholarly journals, action research is typically conducted by the teachers working school being studied. It involves less formal, prescriptive, or theory-driven research methods, since the goal is to address practical problems in a specific school or classroom, rather than produce independently validated and reproducible findings. It is typically focused on solving or answering a specific question; for example, Why are so many of our ninth graders failing mathematics?

- IDS 6910 - Research in Mathematics and Science Education **3 Credit Hours**
- EDG 6329 - Quality Teaching Practices **3 Credit Hours**

Independent Learning

A thesis or action research project is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Three years of teaching experience.
- Recommendation letter by a school principal.
- A professional Florida teaching certificate in one of the following areas: elementary education, mathematics education (middle school or secondary), or science education (middle school or secondary).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

K-8 Mathematics and Science Education program applications are accepted for admission to the summer term only. For information regarding the Lockheed Martin/UCF Academy for Mathematics and Science please visit <http://education.ucf.edu/lmacad/index.cfm>.

Application Deadlines

K-8 Mathematics and Science Education MEd	*Fall Priority	Fall	Spring	Summer
Domestic Applicants			Dec 1	Apr 1
International Applicants				Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

Enrique Ortiz PhD

Associate Professor

enrique.ortiz@ucf.edu

Telephone: 407-823-5222

ED 123 G

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
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Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

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UCF Student Financial Assistance

Millican Hall 120
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Kinesiology MS

College: Health Professions and Sciences	Degree: MS
Department: Kinesiology and Physical Therapy	Option: Thesis, Non-Thesis, Anatomical Sciences Specialization
Program Websites: https://healthprofessions.ucf.edu/kinesiology/	
Graduate Program Handbook	

Program Description

The Master of Science in Kinesiology provides an in-depth study of applied human physiology and how it relates to exercise, athletic performance and health and wellness across the lifespan.

Curriculum

The Master of Science in Kinesiology offers Non-Thesis options, a Thesis option, and an Anatomical Sciences Specialization for students. All options require a minimum of 36 credit hours, with at least 18 credit hours of coursework at the 6000 level. All students are automatically placed in the Non-Thesis option. Students wishing to pursue the Thesis option must receive approval from the graduate program director and have a commitment from a faculty member to serve as the thesis committee chair. Due to limited enrollment, students wishing to pursue the Anatomical Sciences Specialization must also receive approval from the graduate program director.

Students in the Non-Thesis option are required to participate in a practicum (APK 6946) that will serve as their culminating graduate experience or take an independent learning experience (PET 6910 - Problem Analysis - Review of Literature) that involves a detailed literature review specific to a subject area of the student's interest under the supervision of graduate faculty.

The Anatomical Sciences Specialization provides a depth of understanding of the anatomical sciences and substantial hands-on experience in the gross anatomy laboratory. Students interested in pursuing the Anatomical Sciences Graduate Certificate (<https://healthprofessions.ucf.edu/physicaltherapy/anatomical-sciences/>) must gain admission to the certificate program and complete the specified electives, which may be substituted for elective courses listed below.

UCF undergraduates who meet departmental eligibility requirements may enroll in up to nine credit hours of graduate courses in the Kinesiology MS program as part of the Senior Scholars program. Graduate courses completed as a Senior Scholar may be used toward the undergraduate degree and the graduate program of study if admitted to the Kinesiology MS program at UCF. Permission to participate in the Senior Scholar program must be obtained from both the student's undergraduate advisor and the Kinesiology MS program director before enrolling in the graduate courses.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Core Courses: 12 Credit Hours

- APK 6713 - Research Methods in Kinesiology **3 Credit Hours**
- PET 5355 - Exercise Physiology I **3 Credit Hours**
- PET 6389 - Exercise Physiology II **3 Credit Hours**
- PET 6515 - Assessment and Evaluation in Kinesiology **3 Credit Hours**

Non-Thesis Option I: 24 Credit Hours

Non-Thesis students using Option I must take the following:

- APK 6946 - Practicum, Clinical Practice **0 - 99 Credit Hours**
- 18-21 credit hours of electives

Non-Thesis Option II: 24 Credit Hours

Non-Thesis students using Option II must take the following:

- PET 6910 - Problem Analysis - Review of Literature **3 Credit Hours**
21 credit hours of electives

Thesis Option: 24 Credit Hours

Thesis option students must take the following courses.

- APK 6971 - Thesis
- **APK 6703 - Statistical Methods in Kinesiology 3 Credit Hours**
15 credit hours of electives

Anatomical Sciences Specialization: 24 Credit Hours

Anatomical Sciences Specialization students must take the following courses.

- **PHT 6115C - Gross Anatomy/Neuroscience I 6 Credit Hours**
- **PHT 6118C - Gross Anatomy/Neuroscience II 6 Credit Hours**
- **PHT 6119L - Seminar in Anatomical Sciences Techniques 3 Credit Hours**
- **PHT 6510 - Administration of Anatomical Sciences Laboratory 3 Credit Hours**
6 credit hours of electives (see https://catalog.ucf.edu/preview_program.php?catoid=17&poid=7782 for courses relevant in obtaining the Anatomical Sciences Graduate Certificate)

Elective Courses

All electives are selected in conjunction with the student's graduate advisor or the graduate coordinator. Students can choose from the following courses.

- **APK 6703 - Statistical Methods in Kinesiology 3 Credit Hours**
- **PET 6096 - Youth Physical and Athletic Development 3 Credit Hours**
- **PET 6335 - Functional Anatomy and Kinesiology 3 Credit Hours**
- **PET 6357C - Environmental Perturbation and Human Performance 3 Credit Hours**
- **PET 6363 - Dietary and Nutritional Supplementation for Athletic Performance 3 Credit Hours**
- **PET 6366 - Exercise, Nutrition and Weight Control 3 Credit Hours**
- **PET 6372 - Physical Activity and Nutritional Epidemiology 3 Credit Hours**
- **PET 6376 - Sport Nutrition 3 Credit Hours**
- **PET 6381 - Physiology of Neuromuscular Mechanisms 3 Credit Hours**
- **PET 6388 - Cardiovascular Physiology 3 Credit Hours**
- **PET 6395 - Program Design in Strength and Conditioning 3 Credit Hours**
- **PET 6521 - Exercise Physiology Instrumentation 3 Credit Hours**
- **PET 6690 - Exercise Prescription for Special Populations 3 Credit Hours**
- **PET 7387 - Exercise Endocrinology 3 Credit Hours**

Equipment Fee

Full-time students in the Kinesiology MS program pay a \$28 equipment fee each semester that they are enrolled. Part-time students pay \$14 each semester that they are enrolled.

Independent Learning

All students are required to complete a practicum, literature review, or thesis in conjunction with their coursework.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Personal statement discussing reasons for selecting the Kinesiology degree program, career goals, and how this degree will support the stated career goals.
- Two letters of recommendation from previous faculty or supervisors who can speak to the applicant's abilities to be successful in graduate school.
- Résumé for curriculum vitae (CV).
- Video Essay
- While not required, applicants are encouraged to submit official GRE scores taken within the last five years for potential consideration for fellowships, scholarships, and assistantships.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Kinesiology MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		Apr 1
International Applicants	Jan 15	Jan 15		Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

David Fukuda PhD

Associate Professor
david.fukuda@ucf.edu
Telephone: 407-823-0442
ED 320R

Lana Gidusko

lana.gidusko@ucf.edu
407-823-2595
EDU 320

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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Management MSM

College: Business Administration	Degree: MSM
Department: Management	
Program Websites: http://www.business.ucf.edu/graduate-programs	
Graduate Program Handbook	

Program Description

The Master of Science in Management offers 4 track options.

Three tracks are a Professional MS in Management: Business Analytics Track; Human Resources Track; and Entrepreneurship track. Each are taught in a 20-month, cohort format at the UCF Downtown Orlando Campus. They are designed to allow the busy professional to work full-time while earning their degree. Classes meet two times per week and class size is limited. Each of these track options provides a blend of advanced management courses combined with specialty courses.

These professional tracks charge market rate tuition and are considered part-time. The tuition is the same for Florida residents and non-residents.

The fourth track, Integrated Business, is designed for recent non-business undergraduates and emphasizes the development of applied business skills through a team-based, active learning approach, and creates well-rounded multi-disciplinarians who will thrive in environments that require them to take on multiple roles and responsibilities for their employer. This track is a 12-month, full-time daytime program held at UCF's main campus.

This track is considered full time and tuition is based on the current graduate in-state and out-of-state graduate tuition rates.

Program Tracks

- Management MSM, Business Analytics Track
- Management MSM, Human Resources Track
- Management MSM, Entrepreneurship Track
- Management MSM, Integrated Business Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must select a track when applying to the MS in Management program. Tracks have different requirements and deadlines.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Business Analytics, Entrepreneurship & Human Resources Tracks

Robin Hofler

robin.hofler@ucf.edu

Telephone: 407-235-3913

Integrated Business Track

cbagrad@ucf.edu or **ib@ucf.edu**

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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PO Box 160112

Orlando, FL 32816-0112

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finaid@ucf.edu
<http://finaid.ucf.edu>

Management MSM, Business Analytics Track

College: Business Administration	Degree: MSM
Department: Management	Option: Nonthesis
Program Websites: http://www.business.ucf.edu/graduate-programs	
Graduate Program Handbook	

Track Description

The MS in Management/Business Analytics provides students with the specialized skills necessary to respond to challenges of the new data-intensive business world of today.

The 30-credit hour, ten-course curriculum introduces students to the main quantitative methods and software tools of business analytics, a subfield of data science; namely, those used in numerical, optimization, simulation, and statistical methods. Designed for those interested in using quantitative methods to uncover economic relationships, to construct predictive models, and to communicate business intelligence, the curriculum provides students with the knowledge necessary in making informed business decisions. Specifically, students will learn how to acquire, organize, manage, and analyze data, in addition to gaining experience with software tools commonly used in the industry (such as Python, R, and SQLite). Through a combination of case studies, hands-on lectures, and group projects, students will gain valuable experience in using quantitative methods to solve business problems. The program culminates in an applied capstone project that uses these methods and tools to solve an empirical problem.

- A 20-month program offered in Downtown Orlando
- Limited class size, cohort program
- Classes meet 2 evenings per week
- No work experience requirement
- Diagnostic testing required for admission

The MS in Management/Business Analytics program is taught at UCF's Downtown Orlando campus. Students will find a high level of personal attention from program administrators from the moment they apply. Ideal candidates for this degree are students with an understanding of statistics and quantitative methods but come from a variety of degree fields such as business, economics, finance, statistics, information systems and engineering.

Prerequisites: Minimum of college-level microeconomics, statistics or quantitative methods and calculus courses required.

This program is a professional program with a market rate tuition and is considered a part-time program. The tuition is the same for Florida residents and non-residents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

Curriculum

The Business Analytics track in the Professional Master of Science in Management provides students with the specialized skills necessary to respond to challenges of the new data-intensive, decision-making business world of today. Students become business analysts skilled in the collection, management, analysis, interpretation, and application of data to aid in more informed and successful business decisions. Skills learned in this degree are applicable across industries and organizations whether they be large or small, for-profit, or nonprofit.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 30 Credit Hours

- QMB 6010 - Mathematical Tools for Business Analytics **3 Credit Hours**
- QMB 6358 - Software Tools for Business Analytics **3 Credit Hours**
- STA 6136 - Probability and Statistics for Business Analytics **3 Credit Hours**
- QMB 6357 - Microeconomic Analysis for Business Analytics **3 Credit Hours**
- QMB 6304 - Data Visualization **3 Credit Hours**
- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours**
- QMB 6912 - Capstone Project in Business Analytics **3 Credit Hours**
- STA 5104 - Advanced Computer Processing of Statistical Data **3 Credit Hours**
- STA 5735 - Fundamental Data Analytical Methodology with Business Applications **3 Credit Hours**
- STA 5736 - Advanced Data Analytical Methodology with Business Applications **3 Credit Hours**

Course Sequence

The MSM Business Analytics is a 10-course program. The courses are pre-selected and set in a lock-step sequence in the order below.

- QMB 6010 - Mathematical Tools for Business Analytics **3 Credit Hours**
- QMB 6358 - Software Tools for Business Analytics **3 Credit Hours**
- QMB 6357 - Microeconomic Analysis for Business Analytics **3 Credit Hours**
- QMB 6304 - Data Visualization **3 Credit Hours**
- STA 5104 - Advanced Computer Processing of Statistical Data **3 Credit Hours**
- STA 6136 - Probability and Statistics for Business Analytics **3 Credit Hours**
- STA 5735 - Fundamental Data Analytical Methodology with Business Applications **3 Credit Hours**
- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours**

- STA 5736 - Advanced Data Analytical Methodology with Business Applications **3 Credit Hours**
- QMB 6912 - Capstone Project in Business Analytics **3 Credit Hours**

Capstone Course

The MSM Business Analytics capstone course, QMB 6911, Capstone Project in Business Analytics is required for all students. This capstone course integrates all the tools developed in the program to solve an empirical problem and gives students practical experience.

- QMB 6912 - Capstone Project in Business Analytics **3 Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide the following:

- Official transcripts from each college/university attended.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
 - Describe what motivated you either professionally or personally to pursue a master's degree.
 - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
 - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. **One recommendation must be from a previous or current supervisor.**
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English *and* you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. If approved by the Admissions Committee, you will then be contacted to complete diagnostic testing. Admission decisions are made after the diagnostic testing scores are received and reviewed by the Admissions Committee.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Application Deadlines

Business Analytics	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1		
The MS in Management/Business Analytics program is taught on the UCF Downtown Campus in downtown Orlando each fall term.				
International Applicants				
This program is part-time only and therefore cannot accept international applicants.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Robin Hofler

robin.hofler@ucf.edu

Telephone: 407-235-3913

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Management MSM, Entrepreneurship Track

College: Business Administration	Degree: MSM
Department: Management	
Program Websites: http://www.business.ucf.edu/graduate-programs	
Graduate Program Handbook	

Track Description

The Entrepreneurship Track in the Professional Master of Science in Management program is designed for students, working professionals and aspiring entrepreneurs who are interested in developing and implementing new programs, projects, or ventures within their organizations and industries. The program is organized to mirror the phases of startup processes – discovery, planning, and implementation – so that students can work on developing their own startup venture proposals while earning a valuable graduate degree.

This program is a professional program with a market rate tuition and is considered a part-time program. The tuition is the same for Florida residents and non-residents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

Curriculum

This 30-hour experiential program provides an alternative to the MBA degree for students who desire specialized study in creative and entrepreneurial thinking.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Restricted Core Courses—15 Credit Hours

Students take five courses, selected by the program advisor, from the courses listed below.

- GEB 6895 - Business Intelligence **3 Credit Hours**
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- MAN 6915 - Applied Field Project **3-6 Credit Hours**
- MAN 6325 - Applied Research Tools **3 Credit Hours**
- QMB 6010 - Mathematical Tools for Business Analytics **3 Credit Hours**
- MAN 6305 - Human Resources Management **3 Credit Hours**
- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours**
- MAN 6311 - Advanced Topics in Human Resources Management **3 Credit Hours**

Specialization Courses—12 Credit Hours

Students take the four courses listed below.

- ENT 5619 - Creativity and Entrepreneurship **3 Credit Hours**
- ENT 5016 - New Venture Design **3 Credit Hours**
- ENT 5206 - New Venture Implementation **3 Credit Hours**
- ENT 6617 - Innovation and Entrepreneurship Strategy **3 Credit Hours**

Capstone Course—3 Credit Hours

ENT 6900, the capstone course portfolio, is required for all students. This portfolio course provides students with an opportunity to achieve new venture development milestones, demonstrate specific entrepreneurial competencies associated with those milestones, and connect with community experts tasked with assessing their efforts.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
 - Describe what motivated you either professionally or personally to pursue a master's degree.
 - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
 - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. **One recommendation must be from a previous or current supervisor.**

- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English *and* you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. Admission decisions are made after the review process is complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Application Deadlines

Entrepreneurship	Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1		
International Applicants				
This program is part time only and therefore cannot accept international applicants.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Robin Hofler

pmsm@ucf.edu

Telephone: 407-235-3913

Graduate Admissions

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Telephone: 407-823-2766

Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Management MSM, Human Resources Track

College: Business Administration	Degree: MSM
Department: Management	Option: Nonthesis
Program Websites: http://www.business.ucf.edu/graduate-programs	
Graduate Program Handbook	

Track Description

The Human Resources Track in the Professional Master of Science in Management curriculum is formally aligned with the Society of Human Resources Management (SHRM). It is designed for working professionals who aspire to become leaders in human resource management or general management.

This 30-hour program provides an alternative to the MBA degree for students who desire specialized study in management and human resources and seek employment or career advancement in the areas of human resources, strategic planning, organizational effectiveness, staffing, compensation and employee relations.

- 20-month program offered in downtown Orlando
- Limited class size, cohort program
- Classes meet Monday and Wednesday evenings
- Minimum two year professional work experience requirement
- Personal interview required for admission

The innovative curriculum combines general management and strategic business classes with advanced coursework in management of human resources. It provides students with the latest business techniques and knowledge required to succeed in today's competitive marketplace. One main component of the program is a focus on developing practices and methods that align human resources activities with organizational strategies and provide students with the knowledge required to successfully anticipate, plan, and carry out changes.

Students with a wide variety of backgrounds, including those with degrees in business, education, hospitality, nursing, and psychology are encouraged to apply.

This program is a professional program with a market rate tuition, and is considered a part-time program. The tuition is the same for Florida residents and nonresidents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

Curriculum

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Restricted Core Courses—15 Credit Hours

Students take five courses, selected by the program advisor, from the courses listed below.

- MAN 6325 - Applied Research Tools **3 Credit Hours**
- MAN 6305 - Human Resources Management **3 Credit Hours**
- MAN 6915 - Applied Field Project **3-6 Credit Hours**
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- GEB 6895 - Business Intelligence **3 Credit Hours**
- QMB 6010 - Mathematical Tools for Business Analytics **3 Credit Hours**
- MAN 6311 - Advanced Topics in Human Resources Management **3 Credit Hours**
- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours**

Restricted Specialization Courses—12 Credit Hours

Students take four courses, selected by the program advisor, from the courses listed below.

- MAN 6385 - Strategic Human Resources Management **3 Credit Hours**
- MAN 6285 - Change Management **3 Credit Hours**
- MAN 6448 - Conflict Resolution and Negotiation **3 Credit Hours**
- MAN 6066 - Ethical Leadership **3 Credit Hours**
- BUL 6444 - Law and Ethics **3 Credit Hours**

- GEB 6518 - Strategic Innovation **3 Credit Hours**
- MAN 6395 - Leadership Development and Coaching **3 Credit Hours**

Capstone Course—3 Credit Hours

The Professional Master of Science in Management/Human Resources (PMSM/HR) capstone course, MAN 6915 - Applied Field Project, is required for all students. This capstone course applies concepts, theories and methods learned earlier in the program to organizational problems in business settings.

Application Requirements

For information on general UCF graduate application requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
 - Describe what motivated you either professionally or personally to pursue a master's degree.
 - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
 - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. **One recommendation must be from a previous or current supervisor.**
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English *and* you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. Assuming you meet our admission requirements, you will be contacted to schedule an interview. Admission decisions are made after the interview and review process are complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Application Deadlines

Human Resources	Fall Priority	Fall	Spring	Summer
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Domestic Applicants		Jul 1		
The MS in Management/Human Resources program is taught at the UCF Downtown Campus in downtown Orlando and the next available term for this program is Fall 2021.				
International Applicants				
This program is part-time only and therefore cannot accept international applicants.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Robin Hofler

pmsm@ucf.edu

Telephone: 407-235-3913

Graduate Admissions

Mike Burke

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Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

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Institution Codes

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Grad Fellowships

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UCF Student Financial Assistance

Millican Hall 120
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Management MSM, Integrated Business Track

College: Business Administration	Degree: MSM
Department: Management	Option: Nonthesis
Program Websites: http://www.business.ucf.edu/graduate-programs	

Track Description

The Integrated Business track in the Master of Science in Management (MSM/IB) provides students who have a recent, non-business undergraduate degree and limited professional work experience with an introduction to critical, in-demand business processes and helps them develop a wide range of transferable skills that employers value highly. Skills learned in this degree program are applicable across industries and organizations whether they be large or small, for-profit or nonprofit.

This is a full-time, lock-step, one-year program offered on the main campus.

The 30-credit hour, a 10-course curriculum introduces students to business operations from a managerial perspective and to a variety of important business processes that are useful across industries and job titles, including data analysis, human resources management, project management, and sales. In addition, a wide variety of important transferable skills are emphasized, including conflict resolution, critical thinking, data-driven decision making, ethics, leadership, negotiation, oral presentation, teamwork, and written communication. The fully face-to-face program uses a unique flipped-classroom design, which involves providing access to students to online course materials prior to in-class meetings during which students engage in team-based active learning that requires integrating the activities with course materials in practical ways. In this pedagogical model, the instructor serves as a facilitator, consultant, coach, and mentor to the team, rather than a talking head who lectures at the front of the room. The program is designed for recent graduates from non-business disciplines who wish to enter into a professional business career but who do not feel workplace ready. The program culminates in a business strategy class coupled with either an internship or a team-based applied field project.

Highlights:

- A 12-month, full-time program

- 12-hour course load in each of the first two semesters, 6-hour load in the third (final) semester.
- Offered at UCF's main campus
- Cohort (lock-step) program
- Each class meets once per week
- No work experience requirement

Curriculum

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—30 Credit Hours

Students take the 10 courses listed below.

With the permission of the program director, during the third (final) semester in the program a student may substitute a professional internship of no less than 192 hours for MAN 6915 Applied Field Project.

- GEB 6037 - Business Foundations and Career Development **3 Credit Hours**
- ENT 6418 - Small Business Accounting and Finance **3 Credit Hours**
- GEB 6895 - Business Intelligence **3 Credit Hours**
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- MAN 6305 - Human Resources Management **3 Credit Hours**
- MAN 6448 - Conflict Resolution and Negotiation **3 Credit Hours**
- MAN 6581 - Project Management **3 Credit Hours**
- MAN 6721 - Applied Strategy and Business Policy **3 Credit Hours**
- MAR 6416 - Sales and Marketing Strategies **3 Credit Hours**
- MAN 6915 - Applied Field Project **3-6 Credit Hours**

Timeline

First Semester

- GEB 6037 – Business Foundations and Career Development. 3 credit hours. Students will study the concepts, principles, and operations of private enterprise. They will be introduced to the essential functions of modern business management, including marketing, finance, accounting, operations, economics, and human resource management. They will learn how to identify the knowledge, skills, and abilities (KSAs, also known as competencies) associated with success in various job titles and how to map their interests and past educational, work, and life experiences to those KSAs.
- GEB 6895 – Business Intelligence. 3 credit hours. Provides an introduction to a critical thinking process designed to solve business problems that incorporate careful data analysis and persuasive writing.
- MAN 6245 – Organizational Behavior. 3 credit hours. Students learn to analyze human behavior in organizations in terms of the individual, small group, and intergroup relationships, and the total organization.
- MAR 6416 – Sales and Marketing Strategies. 3 credit hours. Students will study strategic issues faced by firms when they seek to market and sell their goods and services. The course will cover the basic principles of marketing and include coverage of digital marketing. Students will also be introduced to the sales process, in both business-to-business (B2B) and business-to-consumer (B2C) markets.

Second Semester

- ENT 6418 – Small Business Accounting and Finance. 3 credit hours. Students will learn concepts of accrual accounting, the contents and uses of financial statements and how they relate to one another, ratio analysis, business structure and valuation, time value of money, cash flow management and budgeting, forecasting, funding courses for various types of businesses, the cost of capital, and capital budgeting.
- MAN 6305 – Human Resources Management. 3 credit hours. Students learn to contribute to the development and implementation of human resource policies and practices. Legal issues and relationships with other business functions are emphasized.
- MAN 6448 – Conflict Resolution and Negotiation. 3 credit hours. The student will come to recognize the pervasiveness and importance of negotiation and acquire a repertoire of negotiating skills. They will develop a systematic and positive approach to negotiating with colleagues, bosses, clients, other stakeholders, and external groups of all kinds—in ways that equip them to deal also with all kinds of conditions and circumstances.
- MAN 6581 – Project Management. 3 credit hours. Students will be introduced to key project management skills and strategies with a focus on methods needed to initiate and manage projects efficiently and effectively. They will study the project management life cycle, defining project parameters, matrix management challenges, effective project management tools and techniques, and the role of a project manager.

Third Semester

- MAN 6915 – Applied Field Project. 3 credit hours.
- MAN 6721 – Applied Strategy and Business Policy. 3 credit hours.

Capstone Course

The Master of Science in Management/Integrated Business (MSM/IB) capstone course, MAN 6915 - Applied Field Project, is required for all MSM/IB students. This capstone course applies concepts, theories and methods learned earlier in the program to organizational problems in business settings.

With the permission of the program director, during the third (final) semester in the program a student may substitute a professional internship of no less than 192 hours for MAN 6915 Applied Field Project.

Application Requirements

For information on general UCF graduate application requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- A Bachelor's degree in a non-business discipline from an accredited institution.
- One official transcript (in a sealed envelope) from each college/university attended.
- A goal statement that explains:
 - What motivated you either professionally or personally to pursue a Master's degree.
 - The steps you took to select this program (include how long you have been considering graduate school and how you learned about this program).
 - A specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Updated résumé.
- A computer-based score of 233 (or 91 Internet-based score) on the Test of English as a Foreign language (TOEFL) is required if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a

country where English is the official language or a university where English is the official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

- Applicants applying to this program whose completed Bachelor's degree is from a college/university outside the U.S. must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are only accepted from World Education Services (WES) or Josef Silny and Associates, Inc.
- GMAT is not required.

Application Deadlines

Integrated Business	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded to highly qualified students based on academic merit. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what students should do to be considered for a fellowship.

Contact Info

Graduate Program

Frank Tamberelli, PhD

Program Director

ib@ucf.edu

College of Business Graduate Programs Office

cbagrad@ucf.edu

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
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Graduate Financial Aid

UCF Student Financial Assistance
 Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Marriage, Couple, and Family Therapy MA

College: Community Innovation and Education	Degree: MA
Department: Counselor Education and School Psychology	
Program Websites: https://ccie.ucf.edu/counselored/	
Graduate Program Handbook	

Program Description

The CACREP accredited Marriage, Couple and Family Therapy Master of Arts program prepares students for licensure in marriage and family therapy and practice in agencies, private practice, and other settings. The Marriage, Couple, and Family Therapy Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Marriage-Couple-Family-Therapy-MA.pdf>.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing annual services to over 1,400 individuals, couples, and families in the Central Florida community.

Curriculum

The CACREP accredited Marriage, Couple and Family Therapy MA program prepares students for Florida licensure in marriage and family therapy. The program requires a minimum of 63 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 45 credit hours of specialization courses (including 3 credit hours of an elective), and 12 credit hours of professional clinical experience.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 51 Credit Hours

Core: 6 Credit Hours

- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**
- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**

Specialization: 45 Credit Hours

- MHS 5005 - Introduction to the Counseling Profession **3 Credit Hours**
- MHS 6430 - Family Counseling I **3 Credit Hours**
- MHS 6431 - Family Counseling II **3 Credit Hours**
- MHS 6440 - Couples Counseling **3 Credit Hours**
- MHS 6070 - Diagnosis and Treatment in Counseling **3 Credit Hours**
- MHS 6220 - Individual Psychoeducational Testing I **3 Credit Hours**
- MHS 6400 - Theories of Counseling and Personality **3 Credit Hours**
- MHS 6401 - Techniques of Counseling **3 Credit Hours**
- MHS 6420 - Foundations of Multicultural Counseling **3 Credit Hours**
- MHS 6450 - Addictions Counseling **3 Credit Hours**
- MHS 6470 - Human Sexuality and Relationships **3 Credit Hours**
- MHS 6500 - Group Procedures and Theories in Counseling **3 Credit Hours**
- MHS 6702 - Ethical and Legal Issues **3 Credit Hours**
- SDS 6347 - Career Development **3 Credit Hours**
- Elective approved by adviser **3 Credit Hours**

Professional Clinical Experience: 12 Credit Hours

The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients. The practicum is conducted on campus in the UCF Community Counseling and Research Center and the internship is conducted at various clinical sites around central Florida.

The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients. The practicum is conducted on campus in the UCF Community Counseling and Research Center and the internship is conducted at various clinical sites around central Florida.

* Prerequisites for MHS 6803 Practicum in Counselor Education are the following: MHS 5005, MHS 6070, MHS 6400, MHS 6401, MHS 6500, and MHS 6702. A minimum of 27 credit hours are required prior to beginning the practicum.

** The prerequisite for MHS 6830 Counseling Internship is a "B" or better in all sections of MHS 6803 as well as MHS 6420.

- MHS 6803 - Practicum in Counselor Education **3 Credit Hours** *
- MHS 6803 - Practicum in Counselor Education **3 Credit Hours***
- MHS 6830 - Counseling Internship **1-6 Credit Hours** **
- MHS 6830 - Counseling Internship **3 Credit Hours****

Additional Program Requirements

- Achieve at least a GPA of 3.0 in counseling specialization courses.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803, and MHS 6830.
- Complete a total of 800 hours of clinical experiences, 200 of which will be in the UCF Community Counseling and Research Center and 600 of which are field-based experiences in the community.
- Students in the Marriage, Couple and Family Therapy program must complete 180 hours of marriage and family therapy services (within the 800 total hours of clinical experiences over the course of their practica and internships) in a marriage and family therapy setting.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Marriage, Couple and Family Therapy students, students are limited to taking a maximum of three (3) courses per semester. However, if students believe they can verify a need to take more than three courses, they should consult with their academic advisor for approval guidelines. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum load.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of providing hands-on services for a variety of clients and presenting concerns. Such services may include, but are not limited to, individual, couple, family, and group counseling with children, adolescents, and adults. Client concerns range from developmental and relational concerns to more severe pathology.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Résumé.
- Goal statement.

The Master's of Arts in Marriage, Couple and Family Therapy program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education program, if in the judgement of the faculty the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates for March and October will be posted on our Counselor Education website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

Application Deadlines

Marriage, Couple, and Family Therapy MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Feb 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Sejal Barden PhD

Associate Professor

counsel@ucf.edu

Telephone: 407-823-2401

ED 322H

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Materials Science and Engineering MSMSE ►

College: Engineering and Computer Science	Degree: MSMS
Department: Materials Science and Engineering	Option: Thesis, Nonthesis
Program Websites: http://mse.ucf.edu/graduate-program/	
Graduate Program Handbook	

Program Description

The Master of Science in Materials Science and Engineering program is primarily for students with bachelor's degrees in Materials Science and Engineering or a closely related discipline.

Fields of emphasis and research for materials science and engineering include crystal growth, high temperature materials and coatings, multicomponent interdiffusion, material stability and degradation, shape memory alloys, mechanical behavior, magnetic and optical and electronic materials, thin films, solar cells, sensors, ceramics, powder metallurgy, non-equilibrium processing of materials, nano synthesis and consolidation, nanomaterials including quantum dots nanowires and nanocomposites, biomaterials, and electrochemically active materials.

Please note: Materials Science and Engineering (MSMSE) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Materials-Science-Engineering-MS.pdf>.

Program Tracks

- Materials Science and Engineering MSMSE, Accelerated BS to MSMBE Track

Curriculum

The Materials Science and Engineering MSMSE program offers both thesis and nonthesis options with each requiring a minimum of 30 credit hours beyond the bachelor's degree. In general, the program includes 12-15 credit hours of required courses with the remaining courses being electives except for at least six credit hours of thesis work for students in the thesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The thesis option is primarily for those students who can devote a full-time effort to completing an independent research project that leads to a thesis. A student pursuing the thesis option may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The nonthesis option is primarily designed for part-time and online students and requires 30 credit hours of coursework. In addition, students pursuing the nonthesis option are required to take EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA 6918 Directed Research as part of their 30-credit-hour course requirement to demonstrate their ability to perform independently in research conditions. See the MSE program director for specific details.

All students are expected to identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. All programs of study must consist of at least 24 credit hours of required and elective courses, exclusive of thesis and research. At least half of the credit hours in a program of study must be at the 6000 level. The appropriate program of study form can be found at the program website listed above and students should consult with the MSE program director for assistance in filling out the program of study form and approval. Substitutions to the program of study must meet with the approval of the adviser and the MSE program director.

A student with an undergraduate degree outside of the materials science and engineering discipline is required to satisfy an articulation program and may have to take additional prerequisite courses.

Prerequisites (or equivalent)

- Mathematics through Differential Equations (MAP 2302)
- Structure and Properties of Materials (EGN 3365)
- Mechanics of Materials (EGN 3331) or Thermodynamics (EGN 3343)
- Experimental Techniques in Mechanics and Materials (EMA 3012C)

Required Courses: 15 Credit Hours

All students must take five required courses unless they hold a materials engineering undergraduate degree, in which case they may substitute an additional elective for EMA 5104.

- EMA 5104 - Intermediate Structure and Properties of Materials **3 Credit Hours**
- EMA 5106 - Metallurgical Thermodynamics **3 Credit Hours**
- EMA 5317 - Materials Kinetics **3 Credit Hours**

All students must take one of the two following pairs of required courses.

Students taking the courses in one required pair may also take the courses in the other required pair as electives.

- EMA 6126 - Physical Metallurgy **3 Credit Hours**
- EMA 6626 - Mechanical Behavior of Materials **3 Credit Hours** or
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 6319 - Colloids and Interface Engineering **3 Credit Hours**

Elective Courses: 9 Credit Hours

All students, both thesis and nonthesis, must take at least 9 credit hours of electives. Additional electives are listed below. Courses should be selected with faculty adviser approval.

- EMA 5108 - Surface Science **3 Credit Hours**
- EMA 5140 - Introduction to Ceramic Materials **3 Credit Hours**
- EMA 5504 - Modern Characterization of Materials **3 Credit Hours**
- EMA 6130 - Advanced Phase Transformations in Materials **3 Credit Hours**
- EMA 6136 - Diffusion in Solids **3 Credit Hours**
- EMA 5585 - Materials Science of Thin Films **3 Credit Hours**
- EMA 6516 - X-ray Diffraction and Crystallography **3 Credit Hours**
- EMA 5586 - Photovoltaic Solar Energy Materials **3 Credit Hours**
- EMA 5584 - Biomaterials **3 Credit Hours**
- EMA 6149 - Imperfections in Crystals **3 Credit Hours**
- EMA 5505 - Scanning Electron Microscopy **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 6518 - Transmission Electron Microscopy **3 Credit Hours**
- EMA 5705 - High Temperature Materials **3 Credit Hours**
- EMA 6605 - Materials Processing Techniques **3 Credit Hours**
- EMA 5610 - Laser Materials Processing **3 Credit Hours**
- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EMA 6611 - Optoelectronics Materials Processing **3 Credit Hours**

Electives Outside EMA Offerings

- CHM 5450 - Polymer Chemistry **3 Credit Hours**
- CHM 5451C - Techniques in Polymer Science **3 Credit Hours**
- CHM 6711 - Chemistry of Materials **3 Credit Hours**
- EEE 5332C - Thin Film Technology **3 Credit Hours**
- EEE 5352 - Semiconductor Material and Device Characterization **3 Credit Hours**
- EEE 6326C - MEMS Fabrication Laboratory **3 Credit Hours**
- EML 5290 - Introduction to MEMS and Micromachining **3 Credit Hours**
- EML 5291 - MEMS Materials **3 Credit Hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**
- OSE 6432 - Guided Waves and Optoelectronics **3 Credit Hours**
- PHZ 5405 - Condensed Matter Physics **3 Credit Hours**

Thesis Option: 6 Credit Hours

Thesis students must complete an independent research project, and write and successfully defend their thesis that describes the project.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- EMA 6971 Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Nonthesis students are required to demonstrate their ability to perform independently in research conditions by completing either EML 6085 or EMA/EML 6918. In addition, they must take another elective beyond the 9 credit hours of electives described above.

- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours** or
- EMA 6918 Directed Research **3 Credit Hours**
- Elective **3 Credit Hours**

Equipment Fee

Students in the Materials Science and Engineering MSMSE program pay \$17 per semester for equipment each semester that they are enrolled. Part-time students pay \$8.50 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or EML 6085 Research Methods or EMA 6918 Directed Research for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Materials Science and Engineering or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MSE graduate program director for more information.

Application Deadlines

Materials Science and Engineering MSMSE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jiyu Fang PhD

Professor

jiyu.fang@ucf.edu

Telephone: 407-882-1182

Engineering I, RM 207B

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233
ETS PPI: 5233

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Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Materials Science and Engineering MSMSE, Accelerated BS to MSMBE Track

College: Engineering and Computer Science	Degree: MSMS
Department: Materials Science and Engineering	Option: Thesis, Nonthesis
Program Websites: http://mse.ucf.edu/graduate-program/	

Track Description

The accelerated undergraduate/graduate program in Materials Science and Engineering allows highly qualified UCF undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Materials-Science-Engineering-MS.pdf>.

Curriculum

The BSME is awarded after completing university requirements for the degree, including 128 total credit hours and completing of 71 credit hours of engineering courses. The MSMSE is awarded upon completion of the master's

program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Up to 12 credit hours of approved graduate-level courses of grades "B" (3.0) or better may be counted toward the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Materials Science and Engineering are as follows:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "B" (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major.

Undergraduate Requirements

Please see the current edition of the Undergraduate Catalog for additional information about engineering programs.

Graduate Requirements

Please see the Materials Science and Engineering MSME program in the Graduate Catalog for additional information.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA/EML 6918 Directed Research for nonthesis students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS Program in Materials Science and Engineering allows highly qualified University of Central Florida undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to the Materials Science Engineering MS Program without a track selection. Additional information about this track may be located at: <http://www.cecs.ucf.edu/current-students/bs-ms-program>.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Materials Science and Engineering or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the Materials graduate program director for more information.

Application Deadlines

Accelerated BS to MSMSE	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
This track is available to University of Central Florida undergraduate majors in Mechanical Engineering only.				
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jiyu Fang PhD

Professor

jiyu.fang@ucf.edu

Telephone: 407-882-1182

Engineering I, RM 207B

Graduate Admissions

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gradadmissions@ucf.edu

Telephone: 407-823-2766

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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Mathematical Science MS

College: Sciences	Degree: MS
Department: Mathematics	Option: Thesis, Nonthesis
Program Websites: https://math.cos.ucf.edu/graduate/	
Graduate Program Handbook	

Program Description

The Master of Science in Mathematical Science provides a broad base in applied, financial and industrial mathematics.

Students in the program can specialize in one of many aspects of mathematics, including Approximation Theory, Applied and Computational Harmonic Analysis, Big Data and Mathematical Statistics, Combinatorics and Graph Theory, Commutative Algebra and Algebraic Geometry, Control and Optimization, Differential and Symplectic Geometry, Fluid and Plasma Dynamics, Functional Analysis, Inverse and Ill-posed Problems, Mathematical Biology, Mathematical Finance, Nonlinear Waves and Nonlinear Dynamics, Numerical Analysis, Orthogonal Polynomials, Partial Differential Equations, Probability and Stochastic Analysis, and Tomography and Medical Imaging

Program Tracks

- Mathematical Science MS, Industrial Mathematics Track
- Mathematical Science MS, Financial Mathematics Track

Curriculum

The Mathematical Science MS program requires 30 credit hours minimum beyond the bachelor's degree. There are two options for the master's degree: thesis and nonthesis.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Thesis and nonthesis options are offered within the program. In both options, after completing the core courses, a student must establish an academic adviser for nonthesis MS option or a thesis adviser for thesis MS option. A program of study must be established by the end of the second semester and presented to the graduate program director for departmental approval. The program of study must include the completion of the core courses and two 2-semester sequence. At least one-half of the program courses in both options must be taken at the 6000 level.

Required Courses: 12 Credit Hours

For thesis or nonthesis option, the master's program requires all students to complete the following four courses.

- MAA 5210 - Topics in Advanced Calculus **3 Credit Hours**
- MAP 6385 - Applied Numerical Mathematics **3 Credit Hours**
- MAS 5145 - Advanced Linear Algebra and Matrix Theory **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**

Elective Courses: 12 Credit Hours

Restricted Electives: 3–6 Credit Hours

After the completion of the core courses, the program requires all students to complete one of the following two-semester sequences. The following shows examples of acceptable sequences using current courses. We expect that other sequences will be developed as our program grows. Note that some sequences consist of a core course plus one elective, while others consist of two electives. Thus, the credit hours in this requirement are variable (3 to 6 credit hours).

- MAA 6405 - Complex Variables **3 Credit Hours**
and
- MAA 6404 - Complex Analysis **3 Credit Hours**
- MAD 5205 - Graph Theory I **3 Credit Hours**

- and
- MAD 6309 - Graph Theory II **3 Credit Hours**
- MAP 5336 - Ordinary Differential Equations and Applications **3 Credit Hours**
- and
- MAP 6356 - Partial Differential Equations **3 Credit Hours**
- MAA 6306 - Real Analysis **3 Credit Hours**
- and
- MAA 6506 - Functional Analysis **3 Credit Hours**
- MAA 6238 - Measure and Probability I **3 Credit Hours**
- and
- MAA 6245 - Measure and Probability II **3 Credit Hours**
- MAP 6111 - Mathematical Statistics **3 Credit Hours**
- and
- MAA 7239 - Asymptotic Methods in Mathematical Statistics **3 Credit Hours**
- MAS 5311 - Algebra I **3 Credit Hours**
- and
- MAS 6312 - Algebra II **3 Credit Hours**
- MTG 5256 - Differential Geometry **3 Credit Hours**
- and
- MTG 6345 - Algebraic Topology **3 Credit Hours**
- MAP 6197 - Mathematical Introduction to Deep Learning **3 Credit Hours**
- and
- MAP 6195 - Mathematical Foundations for Massive Data Modeling and Analysis **3 Credit Hours**

Unrestricted Electives: 3-6 Credit Hours

Unrestricted electives should be chosen in consultation with the graduate program director or the student's thesis adviser and may be chosen from the suggested options: Approximation Theory, Applied and Computational Harmonic Analysis, Big Data and Mathematical Statistics, Combinatorics and Graph Theory, Commutative Algebra and Algebraic Geometry, Control and Optimization, Differential and Symplectic Geometry, Fluid and Plasma Dynamics, Functional Analysis, Inverse and Ill-posed Problems, Mathematical Biology, Mathematical Finance, Nonlinear Waves and Nonlinear Dynamics, Numerical Analysis, Orthogonal Polynomials, Partial Differential Equations, Probability and Stochastic Analysis, and Tomography and Medical Imaging. A list of courses for these elective options can be obtained from the graduate program director. Approved graduate courses outside the department may also be used.

Thesis Option: 6 Credit Hours

In this option, the MS degree requires a total of at least 30 credit hours comprised of at least 24 credit hours of course work and 6 credit hours of thesis. This includes the 15 credit hours of the core courses and 3-6 credit hours of a two-course sequence. No more than 6 credit hours of independent study or directed research may be credited toward the degree. It is strongly recommended that the student select a thesis adviser and establish a program of study by the completion of the core courses. With the help of a thesis adviser, the student will form a thesis committee of three members, of which at least two must be from the Department of Mathematics.

It is recommended that the thesis topic have potential for industrial applications. An oral defense of the thesis will be required.

- MAP 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Nonthesis students will take an additional 6 credit hours of electives. The electives should be chosen in consultation with the graduate program director.

Nonthesis students will receive independent learning experiences by taking one of the two-semester sequences, where they apply mathematical principles to independent projects. Other courses that also have substantial research projects include **MAP 5117 - Mathematical Modeling**, **MAT 5712 - Scientific Computing** and **MAP 6111 - Mathematical Statistics**, MAP 6195, MAP 6197, and may be taken as electives.

No more than 3 credit hours of independent study may be credited toward the degree. It is strongly recommended that the student select an academic adviser and establish a program of study by the completion of the core courses. In addition, the nonthesis student must pass a comprehensive written examination (by passing the qualifying/comprehensive examination at or above the MS level) based on the core courses. Two attempts at the examination are permitted.

Independent Learning

In the Mathematical Science MS program, the thesis option provides an independent learning experience through directed research, reading published research papers, and writing and defending the thesis. The nonthesis option requires students to take one of the two-semester sequences, where they apply mathematical principles to independent projects.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226).

Students who find they are not adequately prepared in one or more of the required mathematical subject areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, will not count toward the graduate degree. Applicants not qualified for regular status may be admitted initially to the university in a nondegree-seeking status. Transfer of credits from other programs will be considered on a course-by-course basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Mathematical Science MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	

International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Qiyu Sun

Professor
 qiyu.sun@ucf.edu
 Telephone: 407-823-4839
 PO Box 161364

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Mathematical Science MS, Financial Mathematics Track

College: Sciences	Degree: MS
Department: Mathematics	Option: Nonthesis
Program Websites: https://math.cos.ucf.edu/graduate/	

Track Description

The Financial Mathematics track in the Mathematical Science MS program prepares graduate students to pursue careers in the finance industry by providing them with high quality professional training in of mathematics applicable to finance.

This track has three components: training in the necessary mathematics to pursue a career in financial mathematics, professional training in financial mathematics, and a required experiential component.

Curriculum

The Financial Mathematics program consists of 30 credit hours of courses and internship. Students will work with an adviser to design a program of study, which will be presented to the program director for approval. If a student has an industrial sponsor, the student's program of study will be developed in consultation with a representative from the student's sponsoring company. Students are expected to obtain hands-on experience. The capstone requirement for this

track is fulfilled by students completing an experiential learning requirement (3 credit hours). At least one-half of the program courses must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

The following courses are required as prerequisites to this track: Calculus with Analytic Geometry I, II, and III; Differential Equations; Linear and Matrix Algebra (or a course equivalent); proficiency in a computer language; Elementary Probability and Statistics. A summer program of two courses, which cannot be used as part of the program of study for this degree, is available for students who have deficiencies in these prerequisite areas.

Required Courses: 21 Credit Hours

- MAP 5606 - Differential Equations for Financial Mathematics **3 Credit Hours**
- MAP 5612 - Computational Methods for Financial Mathematics I **3 Credit Hours**
- MAP 5641 - Financial Mathematics I **3 Credit Hours**
- MAP 5931 - Proseminar for Financial Mathematics **1 Credit Hours**
- MAP 5933 - Seminar in Financial Mathematics **2 Credit Hours**
- MAP 6616 - Computational Methods for Financial Mathematics II **3 Credit Hours**
- MAP 6642 - Financial Mathematics II **3 Credit Hours**
- MAP 6646 - Risk Management for Financial Mathematics **3 Credit Hours**

Restricted Electives: 6 Credit Hours

Students take two of the following courses:

- FIN 6406 - Strategic Financial Management **3 Credit Hours**
- FIN 6515 - Analysis of Investment Opportunities **3 Credit Hours**
- MAP 6207 - Optimization Theory **3 Credit Hours**
- STA 6857 - Applied Time Series Analysis **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 5825 - Stochastic Processes and Applied Probability Theory **3 Credit Hours**

Experiential Requirement: 3 Credit Hours

Students will demonstrate experience in the application of mathematics to industrial problems. This demonstration can be accomplished either through the satisfactory completion of an internship in financial mathematics (MAP 6946), or through satisfactory performance at an approved external/internal workshop in financial mathematics (MAP 6946). Students are required as part of the experiential requirement to deliver an oral presentation on the experience. Students are very strongly encouraged to fulfill this requirement through an internship experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), proficiency in a modern computer language, elementary probability, and statistics.

Students who are not adequately prepared in one or more of the required prerequisite subject areas can make up such deficiencies through a summer remedial program. Such courses, unless specially approved, will not count toward the graduate degree. Applicants not qualified for regular status may be admitted initially to the university in a non-degree seeking status. Transfer of credits from other programs will be considered on a course-by-course basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Financial Mathematics	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

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 Professor
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Mathematical Science MS, Industrial Mathematics Track

College: Sciences	Degree: MS
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Department: Mathematics	Option: Nonthesis
Program Websites: https://math.cos.ucf.edu/graduate/	

Track Description

The Industrial Mathematics track in the Mathematical Science MS program prepares graduate students to pursue careers in industry by providing them with high quality professional training in branches of mathematics valuable to high-technology industries. This track has three components: training in the necessary mathematics to pursue a career in industrial mathematics, professional training to prepare for the environment of the industrial workplace, and a required experiential component.

Curriculum

The program consists of 30 credit hours of courses and internship. Students will work with an adviser to design a program of study, which will be presented to the program director for approval. If a student has an industrial sponsor, the student's program of study will be developed in consultation with a representative from his sponsoring company. Students are expected to obtain hands-on experience. The capstone requirement for this track is fulfilled by students completing an experiential learning requirement (3 credit hours). At least one-half of the program courses must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

The following courses are required as prerequisites to this track: Calculus with Analytic Geometry I, II, and III; Differential Equations; Linear and Matrix Algebra (or a course equivalent); proficiency in a computer language (C or MatLab); Advanced Calculus and Statistics.

Required Courses: 12 Credit Hours

- MAA 5210 - Topics in Advanced Calculus **3 Credit Hours**
- MAS 5145 - Advanced Linear Algebra and Matrix Theory **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**
- MAP 6385 - Applied Numerical Mathematics **3 Credit Hours**

Mathematics Restricted Electives: 12 Credit Hours

Student take four of the following courses:

- MAA 6508 - Hilbert Spaces with Applications **3 Credit Hours**
- MAD 5205 - Graph Theory I **3 Credit Hours**
- MAP 5117 - Mathematical Modeling **3 Credit Hours**
- MAP 5336 - Ordinary Differential Equations and Applications **3 Credit Hours**
- MAP 6111 - Mathematical Statistics **3 Credit Hours**
- MAP 6197 - Mathematical Introduction to Deep Learning **3 Credit Hours**

- MAP 6195 - Mathematical Foundations for Massive Data Modeling and Analysis **3 Credit Hours**
- MAP 6207 - Optimization Theory **3 Credit Hours**
- MAP 6356 - Partial Differential Equations **3 Credit Hours**

Professional Development Restricted Electives and Internship: 6 Credit Hours

Students should take one of the following three options: 1) two graduate courses of the following four (ENT 5016, ENT 6617, ENT 5946, MAN 6245); Or 2) an industrial internship (MAP 6946) with satisfactory completion, and one graduate course from ENT 5016, ENT 6617, ENT 5946 and MAN 6245, or 3) one graduate course from ENT 5016, ENT 6617, ENT 5946 and MAN 6245, and another graduate course from the following three (MAP 5117, MAP 6197, MAP 6195).

- ENT 5016 - New Venture Design **3 Credit Hours**
- ENT 6617 - Innovation and Entrepreneurship Strategy **3 Credit Hours**
- ENT 5946 - Small Business Consulting **3 Credit Hours**
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- MAP 5117 - Mathematical Modeling **3 Credit Hours**
- MAP 6197 - Mathematical Introduction to Deep Learning **3 Credit Hours**
- MAP 6195 - Mathematical Foundations for Massive Data Modeling and Analysis **3 Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226).

Students who find they are not adequately prepared in one or more of the required mathematical subject areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, will not count toward the graduate degree. Applicants not qualified for regular status may be admitted initially to the university in a nondegree-seeking status. Transfer of credits from other programs will be considered on a course-by-course basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Mathematical Science MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Graduate Program

Qiyu Sun

Professor

qiyu.sun@ucf.edu

Telephone: 407-823-4839

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Mechanical Engineering MSME ►

College: Engineering and Computer Science	Degree: MSME
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science degree in Mechanical Engineering is primarily intended for students with a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline obtained from a recognized accredited institution. The program offers Mechanical Systems, Thermofluids and Accelerated BS to MS tracks.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf>.

Program Tracks

- Mechanical Engineering MSME, Accelerated BS to MSME Track
- Mechanical Engineering MSME, Guidance Control and Dynamics Track ► ◆
- Mechanical Engineering MSME, Mechanical Systems Track ►
- Mechanical Engineering MSME, Thermofluids Track ►

Curriculum

The Mechanical Engineering program offers both thesis and nonthesis options in the Accelerated BS to MS, Mechanical Systems, and Thermofluids tracks. Each track requires 30 credit hours of courses, of which 24 credit hours must be formal course work, exclusive of thesis and research.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Students may choose from the following MSME tracks: Accelerated BS to MS, Mechanical Systems, and Thermofluids. Each track offers both thesis and nonthesis options with the thesis option requiring 24 credit hours of formal courses, and six credit hours of thesis. The nonthesis option requires 30 credit hours of courses.

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be met with departmental approval.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department. More information is available from the MAE departmental website listed above.

For the Accelerated track, the Mechanical Engineering BS is awarded after completion of 120 university credit hours and 71 hours of engineering courses and all other university requirements, and the Mechanical Engineering MS is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Thesis

The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

At least 24 credit hours of the program of study must be course work, exclusive of thesis and research.

Nonthesis

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. In addition, students pursuing the nonthesis option are required to take EML 6085 Research Methods in MMAE or EML 6918 Directed Research as part of their 30-credit-

hour course requirement. At least 24 credit hours of these programs of study must be course work, exclusive of research and thesis credit hours.

Equipment Fee

Students in the Mechanical Engineering MSME program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

MAE Department Graduate Seminar Requirement

The MAE Graduate seminar is a zero (0) credit hour (S/U) course that is offered each Fall and Spring academic semesters. All MAE graduate students who are pursuing the MSME are required to register, participate, and receive a satisfactory (S) grade for two (2) semesters of MAE Graduate seminar prior to graduation.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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Orlando, FL 32816-0112

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<https://graduate.ucf.edu/funding/>

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Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Mechanical Engineering MSME, Accelerated BS to MSME Track

College: Engineering and Computer Science	Degree: MSME
Department: Select Department	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Accelerated Undergraduate/Graduate program in Mechanical Engineering allows highly qualified undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf>.

Curriculum

The BSME is awarded after completing all university requirements, including 128 total credit hours and 71 credit hours of engineering courses. The MSME is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Up to 12 credit hours of approved graduate level courses of grades "B" (3.0) or better may be counted towards the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Mechanical Engineering are as follows:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "B" (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major.

Undergraduate Requirements

Please see the current edition of the Undergraduate Catalog for additional information about this program.

Graduate Requirements

The Mechanical Engineering program requires a minimum of 30 credit hours beyond the bachelor's degree, and offers thesis and nonthesis options in two tracks, Mechanical Systems and Thermofluids. At least 24 credit hours of course work must be taken, exclusive of thesis and research. The thesis options require 24 credit hours of formal courses, and

six credit hours of thesis. Accelerated Mechanical Engineering students must declare their interest in either the Mechanical Systems Track or the Thermofluids Track by completing a Program of Study with their adviser.

Additionally, all students pursuing the thesis option must enroll in the following course:

- EML 5936 Mechanical and Aerospace Seminar (0 credit hours)

Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

The nonthesis options require 30 credit hours of courses, including completion of EML 6085 - Research Methods in Mechanical and Aerospace Engineering. For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research.

Equipment Fee

Students in the Mechanical Engineering MSME program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of a master's thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The **Accelerated BS to MS** program in Mechanical Engineering allows highly qualified University of Central Florida undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to either the **Mechanical Systems Track** or **Thermofluids Track**. Additional information about this track may be located at: <http://www.cecs.ucf.edu/current-students/bs-ms-program>.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

Application Deadlines

Accelerated BS to MSME	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
This track is available to University of Central Florida undergraduate majors in Mechanical Engineering only.				
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Fellowships

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Graduate Program

Jihua Gou PhD

Professor

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ENGR1 - 307

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Ashley Rivera Mercado

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Mechanical Engineering MSME, Guidance Control and Dynamics Track ► ◆

College: Engineering and Computer Science	Degree: MSAE
Department: Mechanical and Aerospace Engineering	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Master of Science in Guidance, Control and Dynamics (MSME) is designed to prepare students for careers as engineers in the aerospace industry. The curriculum is developed with strong emphasis in courses related to guidance control and dynamics with applications in aerospace engineering.

Please Note: Mechanical Engineering MSME, Guidance Control and Dynamics Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf>.

Curriculum

The MSME is awarded upon completion of a minimum of 30 credit hours, including 9 credit hours of required courses, 15 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MSME Graduate Director for assistance in filling out their program of study.

A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department.

Prerequisites (or equivalent)

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering
- EAS 4134 - High-Speed Aerodynamics

- EAS 4105 - Flight Mechanics **or**
- EAS 4400 - Spacecraft Attitude Dynamics

- EAS 4200 - Flight Structures **or**
- EAS 4210 Space Structural Dynamics

Required Courses—9 Credit Hours

- EML 5271 - Intermediate Dynamics **3 Credit Hours**

- EEL 5630 - Digital Control Systems **3 Credit Hours**

Select one of the following courses:

- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EML 5311 - System Control **3 Credit Hours**

Elective Courses—12 Credit Hours

All students, both thesis and nonthesis, must complete at least 12 credit hours of electives. The following list are suggested electives to be taken in the program of study.

- EAS 6403C - Attitude Determination and Control **3 Credit Hours**
- EAS 6415 - Guidance, Navigation and Control **3 Credit Hours**
- EEL 6616 - Adaptive Control **3 Credit Hours**
- EEL 6621 - Nonlinear Control Systems **3 Credit Hours**
- EML 5152 - Intermediate Heat Transfer **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**
- EML 6223 - Advanced Vibrational Systems **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 6155 - Convection Heat Transfer **3 Credit Hours**
- EML 6157 - Radiation Heat Transfer **3 Credit Hours**
- EAS 6808 - Space Environment and Payload Instrumentation **3 Credit Hours**
- EEL 5432 - Satellite Remote Sensing **3 Credit Hours**
- EEE 5542 - Random Processes I **3 Credit Hours**

Thesis Option—6 Credit Hours

The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

Students must register for the course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

- EAS 6971 Thesis **6 Credit Hours**

Additionally, students pursuing the thesis option must enroll in the following course:

- EML 5090 - Mechanical and Aerospace Seminar **0 Credit Hours**

Nonthesis Option—6 Credit Hours

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. Students pursuing the nonthesis option are required to take one additional elective and take either EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918 Directed Research, with approval)* as part of their 30-credit-hour course requirement.

*For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

EML 6085 and XXX 6918 fulfill the independent learning requirement and either course is required for nonthesis students.

- Elective **3 Credit Hours**
- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**

Equipment Fee

Students in the Mechanical Engineering MSME program pay a \$90 equipment fee each semester that they are enrolled.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Mechanical Engineering or closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MSME graduate program director for further information.

Application Deadlines

Guidance Control and Dynamics	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor
jihua.gou@ucf.edu
Telephone: 407-823-2155
ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Mechanical Engineering MSME, Mechanical Systems Track



College: Engineering and Computer Science	Degree: MSME
Department: Select Department	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Master of Science degree in Mechanical Engineering is primarily intended for students with a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline obtained from a recognized accredited institution.

The program offers Mechanical Systems, Thermofluids and Accelerated BS to MS tracks.

Please note: Mechanical Engineering (MSME) - Mechanical Systems may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf>.

Curriculum

The Mechanical Systems track in the MSME program requires 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from a list of approved courses, and 6 credit hours in a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. Students should consult with the MMAE Graduate Program Director for assistance in completing the program of study form. The program of study must have departmental approval and must include at least 24 credit hours of formal course work, exclusive of thesis and research. Furthermore, at least half of the credit hours must be from courses at the 6000 level. Substitutions to the program of study must meet with the approval of the adviser and the department.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program and take additional prerequisites. More information is available from the MMAE departmental website listed above.

Prerequisites (or equivalent)

- Differential Equations (MAP 2302)
- Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)
- Machine Design and Analysis (EML 3500) or
- Flight and Structures (EAS 4200)
- Vibration Analysis (EML 4220) or
- Space Structural Dynamics (EAS 4210)
- Experimental Techniques in Mechanics and Materials (EMA 3012C) or
- Solid Mechanics Lab (EGM 3601L) or
- Mechanical Systems Experimental Techniques (EML 4221C)
- Feedback Control (EML 4312C)

Required Courses: 12 Credit Hours

- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5237 - Intermediate Mechanics of Materials **3 Credit Hours**
- EML 5271 - Intermediate Dynamics **3 Credit Hours**
- EML 6211 - Continuum Mechanics **3 Credit Hours**

Elective Courses: 12 Credit Hours

All students, both thesis and nonthesis, must take 12 credit hours of electives from the following list or from courses from other tracks. Electives should be chosen in consultation with the student's adviser.

- EML 6305C - Experimental Mechanics **3 Credit Hours**
- EML 5311 - System Control **3 Credit Hours**
- EML 5546 - Engineering Design with Composite Materials **3 Credit Hours**
- EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II **3 Credit Hours**
- EML 6062 - Boundary Element Methods in Engineering **3 Credit Hours**
- EML 6227 - Nonlinear Vibration **3 Credit Hours**
- EML 5026C - Computational Engineering Analysis **3 Credit Hours**
- EML 5066 - Computational Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5228 - Modal Analysis **3 Credit Hours**
- EML 5532C - Computer-Aided Design for Manufacture **3 Credit Hours**
- EML 6572 - Probabilistic Methods in Mechanical Design **3 Credit Hours**
- EML 6808 - Analysis and Control of Robot Manipulators **3 Credit Hours**
- EML 6226 - Analytical Dynamics **3 Credit Hours**
- EML 6233 - Fundamentals of Fatigue Analysis **3 Credit Hours**
- EML 6547 - Engineering Fracture Mechanics in Design **3 Credit Hours**

Thesis Option: 6 Credit Hours

Thesis students must complete an independent research project, and write and successfully defend a thesis describing the project. Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- EML 6971 Thesis **6 Credit Hours**

Additionally, all student pursuing the thesis option must enroll in the following course:

Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

Nonthesis Option: 6 Credit Hours

Nonthesis students are required to take EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or EML 6918 Directed Research, with approval) as part of their 30-credit-hour course requirement. In addition, nonthesis students must take another elective beyond the 12 credit hours of electives described above.

* For students who are not on campus and with prior approval from the graduate program director, EML 6918, Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of EML 6918 is approved, a letter must be provided by the faculty member agreeing to supervise the directed research and certifying that the experience includes independent learning.

- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- Elective **3 Credit Hours**

Equipment Fee

Students in the Mechanical Engineering MSME program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of a master's thesis for the thesis option. The independent learning experience in the nonthesis option is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and with prior approval from the graduate program director, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of EML 6918 is approved, a letter must be provided by the faculty member agreeing to supervise the directed research and certifying that the experience includes independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

Application Deadlines

Mechanical Systems	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor

jihua.gou@ucf.edu

Telephone: 407-823-2155

ENGR1 - 307

Graduate Admissions

Ashley Rivera Mercado

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Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

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Telephone: 407-823-2827
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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Mechanical Engineering MSME, Thermofluids Track ►

College: Engineering and Computer Science	Degree: MSME
Department: Select Department	Option: Thesis, Nonthesis
Program Websites: http://www.mae.ucf.edu/	

Track Description

The Master of Science in Mechanical Engineering is primarily intended for students with a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline obtained from a recognized accredited institution.

The program offers Mechanical Systems, Thermofluids and Accelerated BS to MS tracks.

Please note: Mechanical Engineering (MSME) - Thermofluids may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf>.

Curriculum

The Thermofluids track in the MSME program requires 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from a list of approved courses, and 6 credit hours in a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must have departmental approval and students should consult with the MMAE Graduate Program Director for assistance in completing their program of study form. At least 24 hours of the program of study must include formal course work, exclusive of thesis and research, and at least half of the credit hours must be from courses at the 6000 level. Substitutions to the program of study must meet with the approval of the adviser and the department.

A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program and take additional prerequisites. More information is available from the MMAE departmental website listed above.

Prerequisites (or equivalent)

- Differential Equations (MAP 2302)
- Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)
- Thermodynamics of Mechanical Systems (EML 3101)
- Measurements in Thermal Systems (EML 4304C)
- Fluid Mechanics II (EML 4703) or
- Propulsion Systems (EAS 4300)
- Heat Transfer (EML 4142)

Required Courses: 12 Credit Hours

- EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5152 - Intermediate Heat Transfer **3 Credit Hours**
- EML 5713 - Intermediate Fluid Mechanics **3 Credit Hours**
- EML 6104 - Classical Thermodynamics **3 Credit Hours**

Elective Courses: 12 Credit Hours

All students, both thesis and nonthesis, must take 12 credit hours of electives from the following list or from courses from other MMAE tracks. Up to 6 credit hours of electives could also be from other graduate courses offered in the College of Engineering and Computer Science. Students should confer with their advisers when choosing electives.

- EML 5402 - Turbomachinery **3 Credit Hours**
- EML 6155 - Convection Heat Transfer **3 Credit Hours**
- EML 6157 - Radiation Heat Transfer **3 Credit Hours**
- EML 6725 - Computational Fluid Dynamics and Heat Transfer I **3 Credit Hours**
- EML 6131 - Combustion Phenomena **3 Credit Hours**
- EML 6154 - Conduction Heat Transfer **3 Credit Hours**
- EAS 6185 - Turbulent Flow **3 Credit Hours**
- EML 6712 - Mechanics of Viscous Flow **3 Credit Hours**
- EAS 6138 - Advanced Gas Dynamics **3 Credit Hours**

- EAS 5302 - Direct Energy Conversion **3 Credit Hours**
- EAS 5315 - Rocket Propulsion **3 Credit Hours**
- EML 5026C - Computational Engineering Analysis **3 Credit Hours**
- EML 5066 - Computational Methods in Mechanical and Aerospace Engineering **3 Credit Hours**
- EML 5105 - Gas Kinetics and Statistical Thermodynamics **3 Credit Hours**
- EML 6062 - Boundary Element Methods in Engineering **3 Credit Hours**
- EML 6144 - Boiling and Condensation Heat Transfer **3 Credit Hours**
- EML 6726 - Computational Fluid Dynamics and Heat Transfer II **3 Credit Hours**

Thesis Option: 6 Credit Hours

Thesis students must complete an independent research project, and write and defend a thesis describing the project. Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the CECS website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

- EML 6971 Thesis **6 Credit Hours** minimum

Additionally, all students pursuing the thesis option must enroll in the following course:

Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

- EML 5090 - Mechanical and Aerospace Seminar **0 Credit Hours**

Nonthesis Option: 6 Credit Hours

Nonthesis students must take EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or EML 6918 Directed Research, with approval) as part of their 30-credit-hour course requirement. Furthermore, they must take an additional elective beyond the 12 credit hours of electives described above.

* For students who are not on campus and with prior approval from the graduate program director, EML 6918, Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of EML 6918 is approved, a letter must be provided by the faculty member agreeing to supervise the directed research and certifying that the experience contains independent learning.

- EML 6085 - Research Methods in Mechanical and Aerospace Engineering **3 Credit Hours**

Equipment Fee

Students in the Mechanical Engineering MSME program pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of a master's thesis for the thesis option. The independent learning experience in the nonthesis option is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and with prior approval from the graduate program director, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of EML 6918 is approved, a letter must be provided by the faculty member agreeing to supervise the directed research and certifying that the experience includes independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

Application Deadlines

Thermofluids	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial

assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Jihua Gou PhD

Professor
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ENGR1 - 307

Graduate Admissions

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Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
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<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Modeling and Simulation MS

College: Graduate Studies	Degree: MS
Department: School of Modeling, Simulation, and Training	Option: Thesis, Nonthesis
Program Websites: https://msgrad.ist.ucf.edu	
Graduate Program Handbook	

Program Description

The UCF School of Modeling, Simulation, and Training (SMST) considers its degree programs as transdisciplinary, intended for those who wish to pursue a career in the fields of academia, government, military/defense, healthcare/medicine, entertainment, technology, education, or service/manufacturing. Most engineering or scientific fields use simulation as an exploration, modeling, or analysis technique. However, Modeling and Simulation is not limited to engineering and science, as it is also used in training, management, and concept exploration. These programs involve constructing human-centered, equipment-centered, and stand-alone computer-based models of existing and conceptual systems and processes.

UCF SMST sought feedback from industry practitioners to identify key competencies for students in our degree programs. This input has been critical to the development of our curriculum, which is designed to provide a broad overall perspective of the developing simulation industry and an awareness of the economic considerations. UCF SMST's objective is to provide education on evaluating the human, organization, equipment, and systems under study through the evaluation of output from the corresponding simulation construct. Alumni of SMST degree programs have both general and specialized skills in Modeling and Simulation.

Though not required, many students in the Modeling and Simulation M.S. program choose to focus their study and research efforts in an area of specialization. Students can base their specialization on their academic and professional goals, and seek feedback from their faculty adviser and the Modeling and Simulation graduate program director. Common areas of specialization are listed below (descriptions can be found at msgrad.ist.ucf.edu). This is not an exhaustive list, as the field continues to grow and evolve.

Behavioral Cybersecurity

Computer Visualization

Human Systems
Instructional and Training Simulation
Interactive Simulation and Intelligent Systems
Simulation in Government and Military
Simulation in Healthcare and Medicine
Simulation Infrastructure
Simulation Management
Simulation Modeling and Analysis

Curriculum

The Modeling and Simulation MS program requires a minimum of 30 credit hours beyond the bachelor's degree plus a culminating experience.

The Modeling and Simulation MS program offers two culminating experience options: thesis and non-thesis.

Both options require core and elective classes as well as a project:

- Thesis option:
 - 15 credits of required coursework
 - Thesis students are required to take IDS6262
 - 9 credits of unrestricted electives
 - 6 credits of thesis enrollment
 - Successful defense and submission of a thesis project
- Non-Thesis option:
 - 15 credits of required coursework
 - Non-thesis students are required to take IDS6916
 - 3 credits of restricted electives
 - 12 credits of unrestricted electives
 - Successful completion of a capstone project (details presented in IDS 6916 - Simulation Research Methods and Practicum—the current requirement is a professional portfolio)

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

Core: 15 Credit Hours

- COT 6571 - Mathematical Foundations of Modeling and Simulation **3 Credit Hours**
- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours**
- IDS 6145 - Simulation Techniques **3 Credit Hours**
- IDS 6267 - Understanding Humans for Modeling and Simulation **3 Credit Hours**
- Thesis Option: IDS 6262 - Research Design for Modeling and Simulation **3 Credit Hours**
- Nonthesis Option: IDS 6916 - Simulation Research Methods and Practicum **3 Credit Hours**

Unrestricted Electives: 9 Credit Hours

All Modeling and Simulation MS students must take at least 9 credit hours of unrestricted electives that support the student's area of graduate study. Unrestricted electives must consist of at least 9 credit hours of formal courses, which may include independent study (up to 6 credit hours). The remaining credit may consist of additional thesis (for thesis option students only), directed research, and additional courses as advised appropriately by the faculty adviser and/or program director.

Thesis Option: 6 Credit Hours

Thesis students are required to take an additional 6 credit hours of thesis.

- **IDS 6971 Thesis 6 Credit Hours**

Nonthesis Option: 6 Credit Hours

Restricted Elective: 3 Credit Hours

Nonthesis students must select an elective course from the Modeling and Simulation Graduate Program. Appropriate courses include those that follow. Others may be added over time with Program Director approval.

- **IDC 5602 - Cybersecurity: A Multidisciplinary Approach 3 Credit Hours**
- **IDC 6601 - Behavioral Aspects of Cybersecurity 3 Credit Hours**
- **IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours**
- **IDS 5142 - Modeling and Simulation for Instructional Design 3 Credit Hours**
- **IDS 6146 - Modeling and Simulation Systems 3 Credit Hours**
- **IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours**
- **IDS 6916 - Simulation Research Methods and Practicum 3 Credit Hours**
- **IDS 6938 Intelligent Tutoring System (ITS) Design 3 Credit Hours**

Unrestricted Electives: 3 Credit Hours

Nonthesis students are required to take an additional 3 credit hours of unrestricted electives that support the student's area of graduate study.

Modeling and Simulation MS Electives

In addition to successfully enrolling and completing the core courses, students are required to carefully select electives with the guidance of a faculty adviser. Elective choices should be made with the intent to strengthen a research interest and/or area of focus in order to meet the individual student's educational goals and objectives.

Listed below are suggested courses in various areas of focus or specialization. These course groupings are mere guides, are not exhaustive and are only meant to assist with advising and course selection in order to meet the individual student's educational goals and objectives. They are not intended to restrict elective choices among focus areas as we strongly encourage Modeling and Simulation students to maintain an interdisciplinary approach to their graduate studies.

If a student identifies another UCF course which may be of value to his/her modeling and simulation research area, but is not already identified in a list below, he/she may request approval from the Graduate Program Director for the course to be used as an elective in the Graduate Plan of Study. All such requests must be made in advance of enrolling in the course.

Those electives categorized as "General" would be appropriate for all students regardless of focus area. The remaining categories are grouped by area of research interest.

General

- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6891 - IEMS Research Methods **3 Credit Hours**
- IDS 5907 Independent Study (variable)
- IDS 5917 Directed Research (variable)
- IDS 6908 Independent Study (variable)
- IDS 6918 Directed Research (variable)
- IDS 6918 Directed Research (variable)
- IDS 6946 Internship (variable)
- IDS 7919 Doctoral Research (variable)
- PHI 5340 - Research Methods in the Cognitive Sciences **3 Credit Hours**
- PSY 6216C - Research Methodology **4 Credit Hours**
- STA 5205 - Experimental Design **3 Credit Hours**

Fundamentals of Modeling and Simulation

- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- ESI 6532 - Object-Oriented Simulation **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- IDS 6145 - Simulation Techniques **3 Credit Hours**
- IDS 6146 - Modeling and Simulation Systems **3 Credit Hours**
- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**
- IDS 6950 - Modeling and Simulation Capstone Report Planning **1 Credit Hours**

Behavioral Cybersecurity

- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**
- CAP 6135 - Malware and Software Vulnerability Analysis **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- CJE 6688 - Cyber Crime and Criminal Justice **3 Credit Hours**
- CNT 5008 - Computer Communication Networks Architecture **3 Credit Hours**
- CNT 5410L - Cyber Operations Lab **3 Credit Hours**
- CNT 6519 - Wireless Security and Forensics **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- EEL 6785 - Computer Network Design **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- EXP 5256 - Human Factors I **3 Credit Hours**

- EXP 6506 - Human Cognition and Learning **3 Credit Hours**
- IDC 5602 - Cybersecurity: A Multidisciplinary Approach **3 Credit Hours**
- IDC 6600 - Emerging Cyber Issues **3 Credit Hours**
- IDC 6601 - Behavioral Aspects of Cybersecurity **3 Credit Hours**
- IDS 6916 - Simulation Research Methods and Practicum **3 Credit Hours**
- INR 6365 - Seminar on Intelligence **3 Credit Hours**
- INR 6366 - The Intelligence Community **3 Credit Hours**
- PHI 6938 - ST: Digital Ethics **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 5825 - Stochastic Processes and Applied Probability Theory **3 Credit Hours**

Human Systems

- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- DIG 6432 - Transmedia Story Creation **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**
- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 6215 - System Safety Engineering and Management **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EME 6458 - Virtual Teaching and the Digital Educator **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- EME 6646 - Instructional Game Design for Training and Education **3 Credit Hours**
- EXP 5208 - Sensation and Perception **3 Credit Hours**
- EXP 5256 - Human Factors I **3 Credit Hours**
- EXP 6255 - Human Performance **3 Credit Hours**
- EXP 6257 - Human Factors II **3 Credit Hours**
- EXP 6258 - Human Factors III **3 Credit Hours**
- EXP 6506 - Human Cognition and Learning **3 Credit Hours**
- EXP 6541 - Advanced Human Computer Interaction **3 Credit Hours**
- IDS 6148 - Human Systems Integration for Modeling and Simulation **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**
- PHI 5225 - Philosophy of Language **3 Credit Hours**
- PHI 5325 - Topics in Philosophy of Mind **3 Credit Hours**
- PHI 5327 - Topics in the Cognitive Sciences **3 Credit Hours**
- PHI 5329 - Philosophy of Neuroscience **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**
- TTE 6270 - Intelligent Transportation Systems **3 Credit Hours**

Computer Visualization

- CAP 5725 - Computer Graphics I **3 Credit Hours**
- CAP 6411 - Computer Vision Systems **3 Credit Hours**

- CAP 6412 - Advanced Computer Vision **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- DIG 6605 - Physical Computing **3 Credit Hours**
- DIG 6647 - History and Theory of Dynamic Media **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- EEL 5825 - Pattern Recognition and Learning from Big Data **3 Credit Hours**
- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EEL 6843 - Machine Perception **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- MAP 6118 - Introduction to Nonlinear Dynamics **3 Credit Hours**
- MAP 5117 - Mathematical Modeling **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**

Quantitative Methods for Simulation, Modeling and Analysis

- CAP 5512 - Evolutionary Computation **3 Credit Hours**
- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- ESI 5306 - Operations Research **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**
- MAP 5117 - Mathematical Modeling **3 Credit Hours**
- MAP 6111 - Mathematical Statistics **3 Credit Hours**
- MAP 6118 - Introduction to Nonlinear Dynamics **3 Credit Hours**
- MAP 6207 - Optimization Theory **3 Credit Hours**
- MAP 6385 - Applied Numerical Mathematics **3 Credit Hours**
- MAP 6407 - Integral Equations and the Calculus of Variations **3 Credit Hours**
- MAP 6408 - Perturbations and Asymptotic Methods **3 Credit Hours**
- MAP 6445 - Approximation Techniques **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 5825 - Stochastic Processes and Applied Probability Theory **3 Credit Hours**
- STA 6236 - Regression Analysis **3 Credit Hours**
- STA 6246 - Linear Models **3 Credit Hours**
- STA 6326 - Theoretical Statistics I **3 Credit Hours**

- STA 6327 - Theoretical Statistics II **3 Credit Hours**
- STA 6329 - Statistical Applications of Matrix Algebra **3 Credit Hours**
- STA 6704 - Data Mining Methodology II **3 Credit Hours**
- STA 6714 - Data Preparation **3 Credit Hours**

Simulation in Healthcare

- CAP 6515 - Algorithms in Computational Biology **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- DIG 6647 - History and Theory of Dynamic Media **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- NGR 6717 - Introduction to Healthcare Simulation **3 Credit Hours**
- NGR 6771L - Healthcare Simulation Practicum **VAR Credit Hours**
- NGR 6794 - Organizational Leadership and Operations in Healthcare Simulation **3 Credit Hours**
- NGR 6978 - Healthcare Simulation Capstone Project **3 Credit Hours**
- PHI 5329 - Philosophy of Neuroscience **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**
- SPA 6417 - Cognitive/Communicative Disorders **3 Credit Hours**

Interactive Simulation and Intelligent Systems

- CAP 5512 - Evolutionary Computation **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 5636 - Advanced Artificial Intelligence **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- DIG 6812 - Digital Interaction for Informal Learning **3 Credit Hours**
- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EME 6613 - Instructional System Design **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**

Simulation Infrastructure

- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- CDA 5106 - Advanced Computer Architecture **3 Credit Hours**
- CDA 6107 - Parallel Computer Architecture **3 Credit Hours**
- CDA 6530 - Performance Models of Computers and Networks **3 Credit Hours**
- CNT 5008 - Computer Communication Networks Architecture **3 Credit Hours**

- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- DIG 6605 - Physical Computing **3 Credit Hours**
- EEL 5173 - Linear Systems Theory **3 Credit Hours**
- EEL 6762 - Performance Analysis of Computer and Communication Systems **3 Credit Hours**
- EEL 6785 - Computer Network Design **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EEL 6883 - Software Engineering II **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**

Simulation Management

- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- EIN 5140 - Project Engineering **3 Credit Hours**
- EIN 5356 - Cost Engineering **3 Credit Hours**
- EIN 6182 - Engineering Management **3 Credit Hours**
- EIN 6215 - System Safety Engineering and Management **3 Credit Hours**
- EIN 6339 - Operations Engineering **3 Credit Hours**
- EIN 6357 - Advanced Engineering Economic Analysis **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- ESI 5227 - Total Quality Improvement **3 Credit Hours**
- ESI 6224 - Quality Management **3 Credit Hours**
- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- IDC 6700 - Interdisciplinary Approach to Data Visualization **3 Credit Hours**
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours**

Plan of Study

After admission to the Modeling and Simulation M.S. program and before the end of the second term of enrollment, students must submit a Graduate Plan of Study (GPS) to the Modeling and Simulation Graduate Program office. The GPS helps the student design an appropriate program of coursework to support the student's educational needs, goals, and objectives. The GPS should be developed in concert with the student's faculty adviser or (if adviser is not yet identified) program director and form a unified cohesive strategy for degree completion. All graduate program credit must be at the 5000-level or higher, with a minimum of 50% at the 6000- or 7000-level.

Students are eligible to make changes to their Graduate Plan of Study at any time, with the approval of their faculty adviser and the Modeling and Simulation Graduate Program.

Culminating Experience

Students are eligible to complete their specific culminating experience once they are within 6 credits of completing all coursework (i.e., completed at least 24 credits of coursework); have an approved up-to-date GPS on file with the graduate program; and have an advisory committee on file (thesis students, please refer to the information below; non-thesis students, the advisory committee is selected by the SMST Graduate Program).

Detailed information and protocol regarding the culminating experiences can be found at msgrad.ist.ucf.edu.

Thesis Adviser and Advisory Committee

Students are responsible for selecting an adviser from a list of faculty members authorized to direct theses to serve as the chair of their advisory committee. Then, in concert with their adviser, the student must identify and select the remaining members of the advisory committee. The advisory committee must contain a minimum of three members (chair plus two members). All committee members must hold a terminal degree and be in fields related to the student's thesis topic. At least two members, including the chair, must be classified as Modeling and Simulation graduate faculty. These faculty members should be from (or represent) at least two different colleges. At least one member must have served as a committee member on a prior SMST advisory committee. With approval from the Modeling and Simulation Graduate Program Director, a committee member may serve as a committee's co-chair.

The UCF College of Graduate Studies, as well as UCF SMST, reserve the right to review appointments to advisory committees; place a representative on any advisory committee; or appoint a co-adviser.

Thesis Defense

The thesis defense is a formal oral presentation of the written project before the student's advisory committee. All dissertation defenses are announced in advance and open to the public. Committee members vote either "Pass" or "Fail" of the written thesis and oral defense. The thesis and its defense must be approved by a majority vote, with no more than one dissenting vote. Normally, students are granted one opportunity to pass the thesis defense. In extenuating circumstances and at the discretion of the Modeling and Simulation Graduate Program Director, a student may be allowed one additional attempt to pass the thesis defense (no more than two attempts will be allowed).

Non-thesis Experience

An advisory committee comprised of 2-3 members of the UCF SMST Core Curriculum committee identifies a non-thesis capstone project. The current requirement is a professional portfolio, highlighting a student's educational and professional skills, reflecting the discipline in which the student plans to pursue their Modeling and Simulation career. The details and standards for the project will be presented in IDS6916, but the student has until their last semester to submit their final portfolio. Students who declare an intent to graduate with the non-thesis option will be enrolled in a portfolio webcourse and invited to participate in workshops to receive feedback prior to the announced deadline. Portfolios are graded "Pass" or "Fail." Normally, a student is granted one opportunity to pass the requirement. In extenuating circumstances and at the discretion of the Modeling and Simulation Graduate Program Director, a student may be allowed one additional attempt to pass the non-thesis project requirement (no more than two attempts will be allowed).

Time to Completion

Students are granted 7 years (21 semesters) from the term of admission to complete their degree program. Failure to comply with the "7-Year Rule" may result in dismissal from the program, and may require reapplication to the program as well as repeating coursework and other program requirements.

Equipment Fee

Full-time students in the Modeling and Simulation MS program pay a \$27 equipment fee each semester that they are enrolled. Part-time students pay a \$13.50 equipment fee each semester that they are enrolled.

Independent Learning

A thesis serves as the independent learning experience for thesis students.

Nonthesis students are required to take IDS 6916 where a research project is required and submit an end-of-program portfolio.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students who enter the Master of Science in Modeling and Simulation program are expected to have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer "literacy," including proficiency with word processing, spreadsheet, and database programs, and, preferably, familiarity with at least one higher order programming language (e.g., C++). Students with undergraduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae
- Goal statement
 - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience.
 - The statement should:
 - Explain the motivation behind the pursuit of a graduate degree in Modeling and Simulation.
 - Discuss future career goals after the completion of the applicant's master study.
 - *Clearly* describe the particular area(s) of research/professional interest, including the identification of at least one UCF faculty member with a similar research focus who could serve as a potential advisor.
 - The goal statement should be between 500 and 1,000 words.
- Two letters of recommendation
 - The letters of recommendation should:
 - Be from faculty members, university administrators and employers (at least one letter should be furnished by college/university faculty who are acquainted with the applicant).
 - Be current to the application.
 - Address the educational and career goals of the applicant.
 - *Clearly* address the applicant's ability to perform graduate-level study and research.
 - The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications are accepted for the fall and spring terms only.

Readmission

The UCF SMST Graduate Programs will consider applications for readmission from students who have been dismissed and/or deactivated from its degree programs. Those interested in readmission **MUST** consult the Modeling and

Simulation Graduate Program Director prior to their application to determine their eligibility to reapply and the requirements for their application.

Prerequisites

Though UCF SMST does not have a mandated prerequisite for its graduate programs, the most successful students are those who have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer literacy, preferably familiarity with at least one higher order programming language (e.g., Python, C/C++/C#, Visual Basic, Java, etc.). Students with undergraduate or graduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

Students without this background are encouraged to select the elective course IDC 5570 (Introductory Mathematics for Modeling and Simulation). This course will prepare them for the required core course COT 6571 (Mathematical Foundations of Modeling and Simulation).

Application Deadlines

Modeling and Simulation MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Charlie Hughes, PhD

Interim Program Director
Charles.Hughes@ucf.edu
Telephone: 407-882-0313
PIII building, room 109

Kirsten Seitz

kirsten.seitz@ucf.edu
Telephone: 407-882-1407
Partnership 2 Building, Room 131D

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Music MA

College: Arts and Humanities	Degree: MA
Department: School of Performing Arts	Option: Thesis
Program Websites: http://performingarts.cah.ucf.edu/study/#musicgrad/	
Graduate Program Handbook	

Program Description

The Master of Arts in Music program is intended to provide additional study and training in music to individuals who already hold a bachelor's degree in music or the equivalent.

The Conducting Concentration is designed for those students who wish to specialize in conducting, leading to recital performances as a conductor.

The Music Studies Concentration reflects the general nature of this degree and allows students to pursue a variety of interests within music, such as performance, jazz studies, music education, and composition. The philosophy of this program is to provide graduate students with the advanced education, skills, and credentials to enhance their professional abilities and opportunities.

Curriculum

The Music MA program requires a minimum of 30-34 credit hours beyond the bachelor's degree. Students must take 11 credit hours of required music courses and 17 credit hours of elective courses. Both thesis and nonthesis options are available and students planning on pursuing a doctoral degree are encouraged to select the thesis option. Nonthesis students must take a Recital or Graduate Project course (2 credit hours) in addition to the 28 credit hours of coursework described above, and thesis students must complete a thesis project (6 credit hours).

Total Credit Hours Required: 30-34 Credit Hours Minimum beyond the Bachelor's Degree

Music Studies Concentration: 30-34 Credit Hours

Music Studies Required Courses: 11 Credit Hours

Note: The designation MUN 5XXX means that any 5000-level ensemble course will fulfill this requirement; similarly, MVX 5XXX means that any 5000-level applied music course in performance will fulfill this requirement.

- MUH 6916 - Music Bibliography and Research **3 Credit Hours**
- MUH 6935 - Music History Seminar **3 Credit Hours**
- MUT 6621 - Techniques and Concepts of Musical Analysis **3 Credit Hours**
To include a minimum of 2 credits of applied lessons (5000 or 6000-level in MVB, MVK, MVS, MVP, MVV, MVW, or MVO) or ensembles (5000 or 6000-level in MUN or MUO).

Music Studies Elective Courses: 17 Credit Hours

Music Studies Restricted Electives in Music: 9 Credit Hours

Course selections in this area will be in a cognate or area of emphasis with approval by program adviser (Performance, Conducting, Composition, Music History, Music Theory, Music Education, Jazz Studies, etc.). Students may not take non-repeatable graduate courses that are similar to courses taken at the undergraduate level.

- MUH 6935 - Music History Seminar **3 Credit Hours**
 - MUE 5348C - K-12 Music Methods **4 Credit Hours**
 - MUE 6175 - Teaching Music Performance **3 Credit Hours**
 - MUG 6106 - Advanced Conducting I **3 Credit Hours**
 - MUG 6306 - Conducting and Literature **3 Credit Hours**
 - MVX 5XXX - Performance V (audition required) **2 Credit Hours**
 - MVX 6XXX - Performance VI (audition required) **2 Credit Hours**
 - MUC 5112 - Composition V **2 Credit Hours**
 - MUC 6251 - Composition VI **2 Credit Hours**
 - MUS 5677 - Health and Wellness for the Performing Artist **3 Credit Hours**
 - MUT 5936 - Music Theory Seminar **3 Credit Hours**
 - MUH 5326 - Medieval and Renaissance Music **3 Credit Hours**
 - MUH 5345 - Music of the Baroque **3 Credit Hours**
 - MUH 5356 - Eighteenth-Century Music **3 Credit Hours**
 - MUH 5375 - Music Since 1900 **3 Credit Hours**
 - MUH 5816 - Jazz Styles and Analysis **3 Credit Hours**
 - MUH 5365 - Music of the 19th Century **3 Credit Hours**
 - MUN 5368L - Graduate Chamber Singers **1 Credit Hours**
 - MUN 5385L - Graduate University Chorus **1 Credit Hours**
 - MUN 5325 - Women's Chorus **1 Credit Hours**
 - MUN 5465L - Graduate Chamber Music **1 Credit Hours**
 - MUN 5145 - Wind Ensemble **1 Credit Hours**
 - MUN 5215 - Symphony Orchestra **1 Credit Hours**
 - MUN 5125 - Concert Band **1 Credit Hours**
 - MUN 5445 - Percussion Ensemble **1 Credit Hours**
 - MUN 5715L - Jazz Ensemble **1 Credit Hours**
 - MUN 5716L - Jazz Chamber Group **1 Credit Hours**
 - MUO 5505L - Graduate Opera Workshop **1 Credit Hours**
- * MUN 5368L, MUN 5385L, MUN 5465L, and MUO 5505L may be used in the degree program a maximum of five times.
- * MUN 5325, MUN 5145, MUN 5215, MUN 5125, MUN 5445, MUN 5715L, and MUN 5716L may be used in the degree program a maximum of four times.

Music Studies Restricted Elective Studies in Supportive Areas: 8 Credit Hours

- MVO 5250 - Advanced Secondary Instruction **1 Credit Hours**
- MUS 6908- Independent Study **1-3 Credit Hours**
- 5000- or 6000-level music courses or non-music courses with approval of advisor; may include any new or repeatable courses from the sections above. Students may not take non-repeatable graduate courses that are similar to courses taken at the undergraduate level.

Music Studies Thesis Option: 6 Credit Hours

Students planning to pursue a doctoral degree (in areas such as music theory, music education, or music history) are strongly encouraged to select the thesis option.

- MUS 6971 Thesis **6 Credit Hours**

Music Studies Nonthesis Option: 2 Credit Hours

The culminating experience may be a recital in performance, composition, or conducting (Graduate Recital); or a written project of smaller scope than a thesis; e.g., a portfolio or research paper (Graduate Project).

- MUS 6976L - Graduate Recital **2 Credit Hours** or
- MUS 6975L - Graduate Project **2 Credit Hours**

Conducting Concentration: 30 Credit Hours

Conducting Required Courses: 11 Credit Hours

- MUH 6916 - Music Bibliography and Research **3 Credit Hours**
- MUH 6935 - Music History Seminar **3 Credit Hours**
- MUS 6960 - Comprehensive Exam **0 Credit Hours**
- MUT 6621 - Techniques and Concepts of Musical Analysis **3 Credit Hours**
To include a minimum of 2 credits of applied lessons (5000 or 6000-level in MVB, MVK, MVS, MVP, MVV, MVW, or MVO) or ensembles (5000 or 6000-level in MUN or MUO).

Conducting Elective Courses: 17 Credit Hours

Conducting Area of Emphasis: 12 Credit Hours

- MUG 6306 - Conducting and Literature **3 Credit Hours**
* Course will be taken 4 times at 3 credits each.

Conducting Music Electives: 5 Credit Hours

- MUC 5112 - Composition V **2 Credit Hours**
- MUC 6251 - Composition VI **2 Credit Hours**
- MUE 5348C - K-12 Music Methods **4 Credit Hours**
- MUE 6175 - Teaching Music Performance **3 Credit Hours**
- MUG 6106 - Advanced Conducting I **3 Credit Hours**
- MUH 5326 - Medieval and Renaissance Music **3 Credit Hours**
- MUH 5345 - Music of the Baroque **3 Credit Hours**
- MUH 5356 - Eighteenth-Century Music **3 Credit Hours**
- MUH 5365 - Music of the 19th Century **3 Credit Hours**
- MUH 5375 - Music Since 1900 **3 Credit Hours**
- MUH 5816 - Jazz Styles and Analysis **3 Credit Hours**
- MUH 6935 - Music History Seminar **3 Credit Hours**
- MUN 5125 - Concert Band **1 Credit Hours**
- MUN 5145 - Wind Ensemble **1 Credit Hours**
- MUN 5215 - Symphony Orchestra **1 Credit Hours**

- MUN 5325 - Women's Chorus **1 Credit Hours**
 - MUN 5368L - Graduate Chamber Singers **1 Credit Hours**
 - MUN 5385L - Graduate University Chorus **1 Credit Hours**
 - MUN 5445 - Percussion Ensemble **1 Credit Hours**
 - MUN 5465L - Graduate Chamber Music **1 Credit Hours**
 - MUN 5715L - Jazz Ensemble **1 Credit Hours**
 - MUN 5716L - Jazz Chamber Group **1 Credit Hours**
 - MUO 5505L - Graduate Opera Workshop **1 Credit Hours**
 - MUS 5677 - Health and Wellness for the Performing Artist **3 Credit Hours**
 - MUT 5936 - Music Theory Seminar **3 Credit Hours**
- * MUN 5368L, MUN 5385L, MUN 5465L, and MUO 5505L may be used in the degree program a maximum of five times.
- * MUN 5325, MUN 5145, MUN 5215, MUN 5125, MUN 5445, MUN 5715L, and MUN 5716L may be used in the degree program a maximum of four times.

Conducting Nonthesis Option: 2 Credit Hours

- MUS 6976L - Graduate Recital **2 Credit Hours**

Additional Program Requirements

- Performance V and VI, Conducting & Literature, and ensembles all require an audition.
- Composition V and VI requires submission of a portfolio.
- No more than 6 credit hours of MUN courses may be counted toward the degree.
- A minimum of 15 credit hours applied to the degree must be at the 6000 level.

Equipment Fee

Students in the Master of Arts in Music Program pay a \$90 equipment fee each semester that they are enrolled.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in music from a NASM accredited school or the equivalent.
- Two letters of recommendation.
- A formal writing sample of at least 1000 words, which should represent the applicant's best scholarly work. The topic should be on a musical subject.
- Applicants for the Conducting Concentration will submit a conducting/rehearsal audition of approximately 20 minutes on a repertoire to be agreed upon with the UCF Director of Bands, Director of Choral Activities, or Director of Orchestras (based on an area of focus), in consultation with conducting faculty. A video or remote live conducting example may be substituted at the discretion of the faculty. Applicants will also meet in an interview with UCF conducting faculty.

- Applicants for all other areas within the Music Studies Concentration will require an Admission Examination with a faculty committee. This examination will consist of an interview or audition or portfolio review as appropriate according to the applicant's goals. The applicant will consult with the Graduate Coordinator in advance to prepare for presentation in appropriate areas of interest to the candidate, such as performance, composition, music history, etc. It is highly recommended to attend this examination in person, although the use of audio and/or video recordings is possible, with the permission of the Graduate Coordinator. The faculty committee will evaluate the candidate and make a recommendation regarding admission. The final decision will be made by either the Graduate Coordinator or Director of the School of Performing Arts.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals and the applicant's potential for completing the degree.

Applicants may be given conditional admission, conditional to the imminent completion of the bachelor's degree and submission of a final transcript.

After acceptance and at the beginning of course work, students will take a diagnostic exam in Music Theory. If remedial course work is required in the case of deficiencies, this will not count toward the total hours for the degree.

Students may transfer up to nine hours of graduate credit from another accredited institution, subject to approval of adviser.

Application Deadlines

Music MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Keith Koons DMA

Professor

keith.koons@ucf.edu

Telephone: 407-823-5116

Performing Arts Center (PAC) M122

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

Nanotechnology MS

College: Graduate Studies	Degree: MS
Department: NanoScience Technology Center	Option: Thesis
Program Websites: nano.ucf.edu	
Graduate Program Handbook	

Program Description

The Master of Science in Nanotechnology program provides students with scientific knowledge and research training in nanoscience and nanotechnology. The program prepares students for seeking employment in industry and academia involved in nanotechnology research, product development and commercialization, or to pursue advanced PhD degrees in related areas.

The Nanotechnology MS program consists of 30 credit hours of study that covers Fall, Spring and Summer consecutive academic terms. Admissions to the program occur in both the Fall and Spring semester of each year, and students are expected to finish the degree in two years.

The program of study includes a balanced course offering including interdisciplinary scientific courses and research training in the field of nanotechnology. The curriculum of courses is delivered via face-to-face instruction. The program includes 3 credit hours of independent study and 6 credit hours of thesis research under the supervision of a faculty at the NanoScience Technology Center. This training will provide students with hands-on research experiences on nanomaterial synthesis, nanostructure fabrication and characterization, and application development in their interested areas.

Program Tracks

- Nanotechnology MS, Non-Thesis Track

Curriculum

The Nanotechnology MS program consists of 30 credit hours of graduate courses including 12 credit hours of required (core) courses in nanotechnology, 9 credit hours of elective courses in physics, engineering, chemistry, biology or other related fields, 3 credit hours of independent study, and 6 credit hours of thesis research.

From the core courses in nanotechnology and elective courses in related science/engineering areas, students will gain basic and broader understanding of the most advanced techniques, developments and applications of nanoscale materials and devices. From the independent study and thesis research training, the students will gain hands-on experiences to work on problems and product development involving nanoscience and nanotechnology.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

Core Courses: 12 Credit Hours

Select four courses from the following list of courses.

- IDS 6250 - Introduction to Nanoscience and Nanotechnology **3 Credit Hours**
- IDS 6254 - Nanofabrication and Characterization **3 Credit Hours**
- IDS 6252 - Biomedical Nanotechnology **3 Credit Hours**
- IDS 6255 - Nanotechnology in Energy and Sustainability **3 Credit Hours**
- IDS 6253 - Bioanalytical Technology **3 Credit Hours**

Independent Study: 3 Credit Hours

Students will take 3 credit hours of independent study, resulting in a required research report of independent learning experience. Independent Study must have a formally defined core of knowledge to be learned by the student. In accordance with the policy of the College of Graduate Studies, the core of knowledge to be learned by the student must be specified in written form and approved by the student, the instructor, and the program coordinator prior to enrollment in Independent Study.

Elective Courses: 9 Credit Hours

- IDS 6257 - Principles and Techniques of Nanobiology **3 Credit Hours**
- IDS 6258 - Advanced Materials and Nanotechnology for Rechargeable Batteries **3 Credit Hours**
- IDS 6260 - Electrical and Optical Properties of Nanoscale Materials and Devices **3 Credit Hours**
- IDS 6261 - Nanotechnology for Sustainable Agriculture **3 Credit Hours**
- EMA 5586 - Photovoltaic Solar Energy Materials **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 6518 - Transmission Electron Microscopy **3 Credit Hours**
- EMA 6605 - Materials Processing Techniques **3 Credit Hours**
- PHY 5933 - Selected topics in biophysics of macromolecules **3 Credit Hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**
- OSE 6938 - ST: Photonic Polymer Materials **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- CHM 6710 - Applied Analytical Chemistry **3 Credit Hours**

Thesis: 6 Credit Hours

Students will conduct and complete an independent thesis research project under the supervision of a NanoScience Technology Center faculty. The student will defend the thesis at the completion of the study. Students will gain hands-on research experiences on nanomaterial synthesis, nanostructure fabrication and characterization, and application development in their interested areas.

- IDS 6971 **6 Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants should have obtained an undergraduate degree in one of the following areas: physics, chemistry, biology, or engineering.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae
- Goal Statement
 - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a master's degree in Nanotechnology. Future career goals after the completion of the applicant's master study should be discussed.
 - The goal statement should be between 500 and 1,000 words.
- Three letters of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The acceptance decision will be based on the assessment of the applicant's GPA from previous college/university, past work experience, recommendation letters and the statement of interest and objectives. Additionally, the committee will evaluate other academic indicators such as having completed a senior thesis, authorship on publications, internship, involvement in scientific research projects, and/or presentations at major scientific meetings and non-academic indicators such as evidence of leadership, extracurricular activities, work or military experience, and/or volunteer activities. For applicants that already have had working experiences in STEM (Science, Technology, Engineering, Mathematics) fields, emphasis will be placed on their past experiences and recommendation letters.

Readmission

Applicants who are applying for readmission need not resubmit transcripts if the transcripts are previously on file with UCF. However, the following application requirements do need to be current for the new readmission application:

- Résumé/Curriculum Vitae
- Goal Statement
- Letters of Recommendation

Application Deadlines

Nanotechnology MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saiful Khondaker PhD

Professor

Saiful@ucf.edu

Telephone: 407-882-2844

PVL 0432

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
finaid.ucf.edu

Nanotechnology MS, Non-Thesis Track

College: Graduate Studies	Degree: MS
Department: NanoScience Technology Center	Option: Non-Thesis
Program Websites: http://nano.ucf.edu	

Program Description

The Master of Science in Nanotechnology Non-Thesis Track program provides students with knowledge and research training in nanoscience and nanotechnology. The program prepares students for seeking employment in industry and academia involved in nanotechnology research, product development, and commercialization, or to pursue advanced PhD degrees in related areas.

Curriculum

The Nanotechnology MS Non-Thesis Track program consists of 30 credit hours of graduate courses including 12 credit hours of required core courses in nanotechnology, 3 credit hours of independent study, 6 credit hours of required elective courses in physics, engineering, chemistry, biology, or biomedical-related science, and 9 credit hours of open elective courses in science, engineering, or business-related field.

From the core courses in nanotechnology and elective courses in related science/engineering areas, a student will gain basic and broader understanding of the most advanced techniques, development, and applications of nanoscale materials and devices. From the independent study training, the students will gain hands-on experiences to work on problems and product development involving nanoscience and nanotechnology.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

- IDS 6250 - Introduction to Nanoscience and Nanotechnology **3 Credit Hours**
- IDS 6252 - Biomedical Nanotechnology **3 Credit Hours**
- IDS 6253 - Bioanalytical Technology **3 Credit Hours**
- IDS 6254 - Nanofabrication and Characterization **3 Credit Hours**
- IDS 6255 - Nanotechnology in Energy and Sustainability **3 Credit Hours**

Independent Study: 3 Credit Hours

- IDS 6908 - Independent Study **3 Credit Hours**

Students will receive basic training under the supervision of a NanoScience Technology Center faculty to conduct research, including ethical training, safety training, attending seminar presentations, conducting a literature survey, and using various instrumentation techniques for research.

Elective Courses: 6 Credit Hours

Elective courses may be chosen from the following recommended course list. Core courses taken beyond the 4-core course requirement may be used to satisfy the elective course requirement. Other courses may be taken as elective courses upon the approval of your graduate program director.

- IDS 6257 - Principles and Techniques of Nanobiology **3 Credit Hours**
- IDS 6258 - Advanced Materials and Nanotechnology for Rechargeable Batteries **3 Credit Hours**
- IDS 6260 - Electrical and Optical Properties of Nanoscale Materials and Devices **3 Credit Hours**
- IDS 6261 - Nanotechnology for Sustainable Agriculture **3 Credit Hours**
- EMA 5586 - Photovoltaic Solar Energy Materials **3 Credit Hours**
- EMA 5060 - Polymer Science and Engineering **3 Credit Hours**
- EMA 6518 - Transmission Electron Microscopy **3 Credit Hours**
- EMA 6605 - Materials Processing Techniques **3 Credit Hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**
- MCB 5225 - Molecular Biology of Disease **3 Credit Hours**
- PCB 5238 - Immunobiology **3 Credit Hours**
- PCB 5236 - Cancer Biology **3 Credit Hours**
- CHM 6710 - Applied Analytical Chemistry **3 Credit Hours**

Open Elective Courses: 9 Credit Hours

As part of completing programmatic requirements, student must also select an additional 9 credit hours of open elective courses in the general field of science, engineering, or business. These courses must be at the graduate level and be approved by the Program Director before registration. To be noted, one of these open electives could also be another 3 credit hours of Independent Study to continue research training under the supervision of a faculty.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae
- Goal Statement
 - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a master's degree in Nanotechnology. Future career goals after the completion of the applicant's master study should be discussed.
 - The goal statement should be between 500 and 1,000 words.
- Three letters of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The acceptance decision will be based on the assessment of the applicant's GPA from previous college/university, past work experience, recommendation letters and the statement of interest and objectives. Additionally, the committee will evaluate other academic indicators such as having completed a senior thesis, authorship on publications, internship, involvement in scientific research projects, and/or presentations at major scientific meetings and non-academic indicators such as evidence of leadership, extracurricular activities, work or military experience, and/or volunteer activities. For applicants that already have had working experiences in STEM (Science, Technology, Engineering, Mathematics) fields, emphasis will be placed on their past experiences and recommendation letters.

Application Deadlines

Non-Thesis	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowship

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Saiful Khondaker PhD

Professor

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Institution Codes

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Grad Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
finaid.ucf.edu

Nonprofit Management MNM ►

College: Community Innovation and Education	Degree: MNM
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/nonprofit-management/	
Graduate Program Handbook	

Program Description

The nonprofit sector is the fastest growing area of the economy, and the completely online Master of Nonprofit Management MNM program prepares students for careers in this dynamic field. The degree program provides opportunities for students to prepare for employment or to advance their careers as administrators in nonprofit organizations. The program is intended to produce graduates equipped with the management skills and analytical skills needed for successful careers in the nonprofit sector.

An Out of State Master in Nonprofit Management Cohort Track is available for students who are not Florida residents and who reside outside the state of Florida. The admission standards and degree requirements are the same as the traditional program. Students interested in the out-of-state Master of Nonprofit Management cohort should refer to that track for more information.

Please note: Master of Nonprofit Management (MNM) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Program Tracks

- Nonprofit Management MNM, Out of State Cohort Track ►
- Nonprofit Management MNM, Public Administration MPA Dual Degree Track ►

Curriculum

The Master of Nonprofit Management (MNM) program is offered completely online. Some elective courses may be offered face-to-face, however, students in this program are expected to have the ability to complete the coursework online. The program requires 30 credit hours of core courses, 3 credit hours of restricted electives and 3 of general electives.

The MNM program incorporates service learning in some of its courses. Service learning is hands-on learning that provides real-life experience in executing tangible projects such as strategic plans, grant proposals, and volunteer management case studies. It enhances the student's understanding of the course core concepts, helps develop leadership skills and provides networking opportunities with a community partner.

Some of the courses also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 27 Credit Hours

- PAD 5145 - Volunteerism in Nonprofit Management **3 Credit Hours**
- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- PAD 6237 - Ethics and Governance in Nonprofit Management **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**

Capstone Course: 3 Credit Hours

*This course is the capstone learning experience for the program requiring the development of a portfolio and analysis that demonstrate the student's mastery of the NASPAA Universal Competencies. The capstone course is offered only in fall and spring semesters.

- PAD 6149 - Nonprofit Administration **3 Credit Hours** *
Must be taken in the final semester, core courses are prerequisites

Restricted Elective: 3 Credit Hours

This elective must be a UCF Public Administration 6000-level course that is chosen after consultation with the student's academic adviser.

- PAD 6000-level elective course **3 Credit Hours**

Electives Option: 3 Credit Hours

Students take one elective course in addition to the restricted elective (three credit hours each) with the prior approval of the program director. The elective courses are to be in the student's area of interest, such as public administration, criminal justice, health care, social work or the arts. The MNM program does not accept 4000-level courses.

- Electives **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or better in every course listed under required courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher. The final culminating experience for those enrolled in the Master of Nonprofit Management results in students taking and satisfactorily completing the capstone course, PAD 6149 - Nonprofit Administration.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialog and service learning. Students are encouraged to engage in research projects, scholarly papers, internships, and presentations at professional conferences that contribute to their self development. The final culminating experience for those enrolled in the Master of Nonprofit Management results in students taking and satisfactorily completing the Nonprofit Administration (PAD 6149).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Three letters of recommendation are required. Letters of recommendation must specifically address the prospective student's ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional résumé should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - What is your reason for pursuing graduate study in Nonprofit Management including your future goals and plans?
 - What specific areas of Nonprofit Management interest you?
 - Nonprofit sector experience is preferred, not required.
 - What makes you a special candidate for admission to this program?
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

All requested material must be submitted by the established deadline date. Material received after the established deadline may not be considered. Admission to this program is competitive; applicants meeting the minimum admission requirements are not guaranteed admission to this program.

Students are expected to be computer literate upon entry to the program. This program is completely online so computer skills and internet access are necessary for this program.

A limited number of students who do not meet these requirements may be admitted on a provisional basis. These students must demonstrate proven nonprofit sector experience, present recommendations from either academic or professional advisers, and provide a clear statement of educational goals.

Application Deadlines

Nonprofit Management MNM	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Young-joo Lee, PhD

Associate Professor
 Director, Nonprofit Programs
 Young-joo.Lee@ucf.edu
 DPAC 448C

Nasrin Lakhani, MNM

Director, Advising and Student Support Services
 nasrin.lakhani@ucf.edu
 Telephone: 407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
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Graduate Financial Aid

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nonprofit Management MNM, Out of State Cohort Track ►

College: Community Innovation and Education	Degree: MNM
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/nonprofit-management/	

Track Description

The nonprofit sector is the fastest growing area of the economy, and the completely online out-of-state cohort track in the Master of Nonprofit Management program prepares students for careers in this dynamic field.

The degree program provides opportunities for students to prepare for employment or to advance their careers as administrators in nonprofit organizations. The program is intended to produce graduates equipped with the management skills and analytical skills needed for successful careers in the nonprofit sector.

The Master in Nonprofit Management Cohort Track is designed specifically for students who are not Florida residents who reside outside the state of Florida. The admission standards and degree requirements are the same as the traditional program. Students interested in the out-of-state Master of Nonprofit Management cohort should contact the Nonprofit Management program director or advisor at the School of Public Administration at (407) 823-2604.

Please note: Master of Nonprofit Management (MNM) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

For Non-Florida Residents, Out-of-State Students

The Cohort track in the Master in Nonprofit Management is designed specifically for students who are not Florida residents. The admission standards and degree requirements are the same as the traditional program. Students interested in the out-of-state Master of Nonprofit Management cohort should contact the School of Public Administration.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

The Master of Nonprofit Management (MNM) program incorporates service learning in some of its courses. Service learning is hands-on learning that provides real-life experience in executing a tangible project such as strategic plans, grant proposals, and volunteer management case studies. It enhances the student's understanding of the course core concepts, helps develop leadership skills and provides a networking opportunity with a community partner.

Some of the courses also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Required Courses: 27 Credit Hours

- PAD 5145 - Volunteerism in Nonprofit Management **3 Credit Hours**
- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**

- PAD 6237 - Ethics and Governance in Nonprofit Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**

Capstone Course: 3 Credit Hours

*This course is the capstone learning experience for the program requiring the development of a portfolio and analysis that demonstrate the student's mastery of the NASPAA Universal Competencies. The capstone course is offered only in fall and spring semesters.

- PAD 6149 - Nonprofit Administration **3 Credit Hours** *

Restricted Elective: 3 Credit Hours

All students must take a PAD 6000-level elective after consultation with their adviser.

- PAD 6000-level elective course (coded for out of state cohort) **3 credit hours**

Electives: 3 Credit Hours

Students take one PAD 5000 or 6000 level elective course (three hours) in addition to the restricted elective. The elective courses should be selected from the online cohort courses offered by School of Public Administration.

NOTE: Students in the MNM Out of State Cohort track pursuing the Graduate Certificate in Fundraising simultaneously are restricted to PAD 6235 and PAD 6237 as two of the three electives.

- Elective (coded for out of state cohort) **3 Credit Hours**

National Nonprofit Leadership Certificate Option: 6 Credit Hours

The Nonprofit Leadership Alliance represents the achievements of national academic and experiential standards in nonprofit management. Students pursuing the Nonprofit Leadership Certification must meet the Nonprofit Leadership Alliance mandated requirements, including a 300-hour internship or documentation of employment history in the nonprofit sector. Please contact Program Director Dr. Stephanie Krick for additional requirements.

Students must achieve a grade of "B-" (80%) or better in every course listed under required courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- Internship* **3 credit hours**
- Elective **3 credit hours**

*An internship is required for students with less than 300 hours of nonprofit sector experience. Students who provide documentation of at least 300 hours of experience in the nonprofit sector may have their internship waived, but must complete an approved elective (3 credit hours) in place of the internship. Work experience does not count for credit toward the MNM program.

Cost Per Credit Hour

For students in this Master of Nonprofit Management Cohort, the cost per credit hour is \$440.62 for out-of-state students. Tuition is subject to change.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue and service learning. Tangible projects such as strategic plans, grant proposals, and volunteer management case studies along with research projects, scholarly papers, internships, and presentations at professional conferences also contribute to the self development of our students. The final culminating experience for those enrolled in the Master of Nonprofit Management results in students taking and satisfactorily completing the Program Evaluation course (PAD 6327).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript meeting the minimum GPA requirement of 3.0, in a sealed envelope, from each college/university attended.
- Three letters of recommendation specifically for the MNM program. Letters of recommendation must specifically address the prospective student's ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional résumé should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - Reason for pursuing graduate study in Nonprofit Management including future goals and plans.
 - Specific areas of Nonprofit Management of interest to the applicant.
 - Nonprofit sector experience is preferred, not required.
 - What makes the applicant a special candidate for admission to this program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to this degree is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

This program is completely online. Students are expected to be computer literate upon entry to the program.

Application Deadlines

Out of State Cohort	*Fall Priority	Fall	Spring	Summer
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Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Young-joo Lee, PhD

Associate Professor
 Director, Nonprofit Programs
 Young-joo.Lee@ucf.edu
 DPAC 448C

Nasrin Lakhani, MNM

Director, Advising and Student Support
 nasrin.lakhani@ucf.edu
 Telephone: 407-823-1912

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nonprofit Management MNM, Public Administration MPA Dual Degree Track ►

College: Community Innovation and Education	Degree: MNM and MPA
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/nonprofit-management/	

Track Description

The Nonprofit Management MNM - Public Administration MPA Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Nonprofit Management and the Master of Public Administration, concurrently.

Students successfully completing this MNM/MPA Dual Degree program will have the skills and analytical techniques for successful careers in both the public and nonprofit sectors. The program emphasizes nonprofit management and public administration research, theory, policy and organizational administration to prepare future public service organizational leaders in public, nonprofit, social service, and private organizations. After successful completion of the

MNM/MPA Dual Degree program, students will receive two diplomas - one for the Nonprofit Management MNM degree and one for the Public Administration MPA degree.

Students seeking admission to the MNM/MPA Dual Degree program should apply directly to the Dual Degree track of either the Public Administration MPA program or the Nonprofit Management MNM program. Only one application will be required. If admitted, the student will be active in the Dual Degree tracks of both the Public Administration MPA and the Nonprofit Management MNM programs.

Students previously admitted to the Public Administration MPA or the Nonprofit Management MNM program should consult with their adviser prior to completing 18 credit hours if interested in the MNM/MPA Dual Degree program.

Please note: Nonprofit Management (MNM) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The dual degree track (Master of Nonprofit Management/Master of Public Administration) consists of 54 credit hours. Each student completes all of the core courses for each program with 18 required core courses (54 credit hours), including the research methods and statistics courses (6 credit hours) and capstone courses from each program (6 credit hours).

Courses and credit hours used for undergraduate degrees cannot be counted toward the MPA/MNM track, except for Senior Scholar students who, with the permission of the MPA/MNM program director, may use up to 9 credit hours of graduate coursework in both their undergraduate degree and the dual degree program. No undergraduate-level courses will be accepted in the MPA/MNM dual degree track.

The dual degree program incorporates service learning in some of its courses. Service learning is hands-on learning that provides real-life experience in executing tangible projects such as strategic plans, grant proposals, and volunteer management case studies. It enhances the student's understanding of the course core concepts, helps develop leadership skills and provides a networking opportunity with a community partner.

Total Credit Hours Required: 54 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 54 Credit Hours

Core: 42 Credit Hours

- PAD 5145 - Volunteerism in Nonprofit Management **3 Credit Hours**
- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**

- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6207 - Public Financial Management **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6237 - Ethics and Governance in Nonprofit Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**

Research Methods/Statistics Core Requirements: 6 Credit Hours

- PAD 6700 - Research Methods in Public Administration **3 Credit Hours**
- PAD 6701 - Analytical Techniques for Public Administration **3 Credit Hours**

Capstone: 6 Credit Hours

Capstone Core Requirements: 6 Credit Hours

Students will engage in a capstone experience for both the MPA and the MNM programs that builds upon the knowledge and skills gained from completing the core courses. Students will complete this requirement through enrollment in PAD 6149 - Nonprofit Administration and PAD 6062 - Advanced Concepts and Applications in Public Administration. Capstone courses may only be taken following the completion of all core courses. Capstone courses are only offered in fall and spring semesters.

- PAD 6062 - Advanced Concepts and Applications in Public Administration **3 Credit Hours**
- PAD 6149 - Nonprofit Administration **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone courses PAD 6149 and PAD 6062. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers, internships, and the capstone experience also contribute to the self-development of MPA students. The research study and final report in the Capstone Experience will focus on reviewing and analyzing contemporary research in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. The capstone courses, PAD 6062 and PAD 6149, provide independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Three letters of recommendation. Letters of recommendation must specifically address the applicant's ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional resume should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - Reason for pursuing graduate study in Public Administration and Nonprofit Management, including future goals and plans.
 - Specific areas of Public Administration and Nonprofit Management of interest.
 - Relevant experience, paid or as a volunteer (required).
 - What makes the applicant a special candidate for admission to this limited access program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

Admission to this dual degree option is limited; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Much of the coursework for this program will be online. Students are expected to be computer literate upon entry to the program and to have access to the internet.

Application Deadlines

Public Administration MPA Dual Degree	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Young-joo Lee, PhD (MNM Program)

Associate Professor
Director, Nonprofit Programs
Young-joo.Lee@ucf.edu
DPAC 448C

Nasrin Lakhani, MNM

Director, Graduate Advising and Student Supportna
srin.lakhani@ucf.edu
Telephone: 407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

Grad Fellowships

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gradfellowship@ucf.edu
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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nursing MSN ►

College: Nursing	Degree: MSN
Department: Nursing	
Program Websites: http://www.nursing.ucf.edu/	
Graduate Program Handbook	

Program Description

The Master of Science in Nursing (MSN) programs build upon the student's baccalaureate nursing education and professional experience. The Master of Science in Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE).

The College of Nursing also offers admission to its master's degree programs in nursing to Registered Nurses who have completed an AS in Nursing or diploma nursing program and have bachelor's degrees in fields other than nursing. These students will need to take 9 credits of undergraduate upper-division course work as the prerequisite for graduate study in nursing. Please contact gradnurse@ucf.edu for more information.

The goal of the Master of Science in Nursing program is to prepare advanced practice nurses, nurse educators, and nursing leaders and managers to assume leadership positions in a variety of healthcare settings. Graduates of these programs are eligible to sit for national certification examinations in their respective specialties.

Program Objectives

The programs prepare students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.

- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support advanced nursing practice.
- Plan, evaluate, and implement the delivery of health care using critical thinking skills in an advanced nursing role.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Please Note: The Nursing MSN may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

Program Tracks

- Nursing MSN, Leadership and Management Track ►
- Nursing MSN, Nurse Educator Track ►
- Nursing MSN, Nursing and Health Care Simulation Track ►

Curriculum

Depending on the track, students must complete a minimum of 31-36 credit hours of graduate-level coursework. Details about this program are located in the Nursing MSN Handbook.

- Nursing Leadership and Management—36 Credit Hours
- Nurse Educator—35 Credit Hours
- Family Nurse and Health Care Simulation—31 Credit Hours

Total Credit Hours Required: 31-36 Credit Hours Minimum beyond the Bachelor's Degree

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 - Evidence Based Nursing Practice (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the student's MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Unsatisfactory Grade in MSN Courses

All MSN coursework must be completed with a B or higher to progress in the program. Students that receive a grade below B are subject to dismissal. All grades below B must be reviewed by the Master's Admissions, Progression and Graduation (APG) Committee for continuation in the MSN program.

College of Nursing Master's Program Handbook

All master's students are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program particularly clinical placements and forms for appeals to the Master's APG Committee are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in the Master of Science in Nursing programs pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Non-Nursing Baccalaureate Program

In addition to the MSN for students holding a baccalaureate nursing degree, the College of Nursing also offers admission to its master's degree programs in nursing to Registered Nurses who have completed an AS in Nursing or diploma nursing program and have bachelor's degrees in fields other than nursing. These students will need to take 9 credits of undergraduate upper division course work that is prerequisite for graduate study in nursing. An undergraduate statistics course will also be required if not completed in the bachelor's degree. Please contact gradnurseadvicors@ucf.edu for more information on how to apply.

The undergraduate courses required prior to graduate course work are:

- NUR 3165 - Nursing Research **3 Credit Hours**
- NUR 3805 - Dimensions of Professional Nursing Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the students MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students must choose a track to apply for the MSN program. All tracks contain the same base admission requirements listed below, however, please review the Catalog entry for your track of interest and additional application requirements.

The following application information is provided for applicants who have completed a bachelor's degree. (For applicants without a bachelor's degree interested in the RN to MSN Program please contact the College of Nursing

Undergraduate Office at gradnurseadvisor@ucf.edu for an advising appointment). In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- Florida license required for all students who will be taking clinical and practice courses in Florida health care agencies and institutions. For those students at a distance, a license is required in the state or country in which they practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue/ problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an MSN adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

*Licensed RNs who have completed an AS in Nursing or diploma nursing program and Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Upon admission to the program students will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. A student must be able to meet clinical partner background requirement to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial

assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Joellen Edwards, PhD

Professor

gradnurse@ucf.edu

Telephone: 407-823-6274

UTWR 326

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Nursing MSN, Adult-Gerontology Acute Care Nurse Practitioner Track

College: Nursing	Degree: MSN
Department: Nursing	Option: Nonthesis
Program Websites: http://www.nursing.ucf.edu/	

Track Description

This track will not be accepting applications or enrolling new students effective Fall 2018.

The Adult-Gerontology Acute Care Nurse Practitioner (AGACNP) Track in the Master of Science in Nursing (MSN) program prepares the advanced practice nurse to care for patients with medically complex stable and unstable acute, critical and chronic illnesses across care settings ranging from hospitals to subacute, ambulatory care, clinic and home care environments. The program provides a spectrum of care from disease prevention to acute and critical care management.

The track provides a spectrum of care from disease prevention to acute and critical care management. The curriculum prepares students for both the AGACNP board certification examination administered through the American Nurses Credentialing Center and the Acute Care Nurse Practitioner--Adult-Gerontology certification examination administered through the American Association of Critical Care Nurses.

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.

- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support the advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

For information on how this program may prepare you for professional licensure, please contact Dr. Christopher Blackwell, Director, Adult-Gerontology Acute Care Nurse Practitioner Program.

Curriculum

The MSN Adult-Gerontology Acute Care Nurse Practitioner Track requires a minimum of 46 credit hours beyond the baccalaureate degree with 660 clinical practice hours. The program prepares nurses at the entry-level for advanced practice for the current healthcare system based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis; and provides analytic, critical thinking and diagnostic reasoning skills to examine practice innovations.

Total Credit Hours Required: 46 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses—9 Credit Hours

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637L - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Required Courses— 42 Credit Hours

Core Courses—24 Credit Hours

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 clinical hours)
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6813 - Evidence Based Nursing Practice **3 Credit Hours**
- NGR 7913 - Doctoral Project **3 Credit Hours**

Specialty Courses: Adult/Gerontology Acute Care Nurse Practitioner—22 Credit Hours

- NGR 6210 - Adult-Gerontology Acute Care Nurse Practitioner I **3 Credit Hours**
- NGR 6230L - Diagnostics and Skills for the Critically Ill **2 Credit Hours** (60 clinical hours)
- NGR 6211 - Adult-Gerontology Acute Care Nurse Practitioner II **3 Credit Hours**
- NGR 6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6175 - Critical Care Pharmacology **3 Credit Hours**
- NGR 6212 - Adult-Gerontology Acute Care Nurse Practitioner III **3 Credit Hours**
- NGR 6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum **3 Credit Hours** (180 clinical hours)

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade of below "B" in any course will be reviewed by the MSN/DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades of below "B" are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- Clinical performance evaluated at a satisfactory level

College of Nursing Master's Program Handbook

All master's students are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing Programs pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the student's MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1 inch margins:
 - Discuss the impact of the graduate nursing education in your desired track on the evolution of your professional role
 - Describe the path you would take to ensure success in your graduate nursing education
 - Identify one significant contemporary issue of problem in US healthcare and explore how members of the nursing profession can help address that issues or solve that problem
- Curriculum Vitae: CV should reflect prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student
- An interview with faculty may also be required.

*For Students with an RN license and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu or 407-823-2744 for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a MSN adviser to discuss your goals for masters study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for master-level preparation for advanced nursing practice.

Admission to the program is competitive, based on evaluations of the applicant's abilities, past performance, recommendations, FDLE/FBI finger printing and certified background checks, and the match of UCF programs with the applicant's career goals. The College of Nursing accepts most qualified students. Since enrollment is limited, not all students who apply may be accepted, even if minimum requirements are met.

Effective August 2017, the College of Nursing will be implementing a database, LEAP*RN (ProjectConcert) to manage information regarding student course work and plans of study, clinical placements, and all evaluation data. This database will assist us in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. All students will be responsible for an annual subscription of \$77.40 payable directly to ProjectConcert. Holds will be placed on registration and enrollment if the subscription cost is not paid. Further information will be disseminated early in the summer

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF

Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Christopher Blackwell PhD

Associate Professor

christopher.blackwell@ucf.edu

Telephone: 407-823-2744

UTWR 453

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Nursing MSN, Adult-Gerontology Primary Care Nurse Practitioner Track

College: Nursing	Degree: MSN
Department: Nursing	

Track Description

This track will not be accepting applications or enrolling new students effective Fall 2018.

The Master of Science in Nursing (MSN) program in the Adult/Gerontology Primary Care Nurse Practitioner Track prepares nurses for advanced primary care practice in the current healthcare environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, and leadership.

The MSN Adult/Gerontology Primary Care Nurse Practitioner Track allows students to sit for certification examinations when they have completed the list of courses required. Certification authorizes them to function in the advanced role. Enrolling in the DNP program is an option after completion of the MSN.

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support the advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

The College of Nursing also offers admission to its master degree programs in nursing to Registered Nurses who have bachelor degrees in fields other than nursing. These students will need to take 8 credits of undergraduate upper division course work as the prerequisite for graduate study in nursing. Please contact gradnurse@ucf.edu for more information.

The College also offers an RN to MSN plan of study that provides an accelerated program for RNs who do not hold a baccalaureate degree but have met general education requirements. Students admitted under this plan of study will complete requirements for both the BSN and MSN programs. See RN to MSN program below for more information. A

separate application to the graduate program will be required upon completion of the BSN degree. Admission to the MSN program is competitive and not guaranteed.

For information on how this program may prepare you for professional licensure, please contact Dr. Josie Weiss, Director, Family Nurse Practitioner (FNP) and Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP) Programs

Curriculum

The MSN Adult/Gerontology Primary Care Nurse Practitioner Track requires a minimum of 42 credit hours beyond the baccalaureate degree with 660 clinical practice hours. The part-time plan of study for the MSN can be completed in 8 semesters and the full-time plan of study in 5 semesters.

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses: 9 Credit Hours

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637L - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Required Courses: 42 Credit Hours

Core Courses: 24 Credit Hours

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 clinical hours)
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6813 - Evidence Based Nursing Practice **3 Credit Hours**
- NGR 7913 - Doctoral Project **3 Credit Hours**

Specialty Courses: Adult/Gerontology Nurse Practitioner: 18 Credit Hours

- NGR 6334 - Women's Health for APNs **2 Credit Hours**
- NGR 6201 - Adult I Primary Care **3 Credit Hours**
- NGR 6240L - Adult I Clinical for APNs **3 Credit Hours** (180 clinical hours)
- NGR 6202L - Adult II Primary Care Clinical **3 Credit Hours** (120 clinical hours)
- NGR 6263 - Gerontologic Care for APNs **3 Credit Hours**
- NGR 6263L - Gerontologic Care Clinical for NPs **2 Credit Hours** (120 clinical hours)

- **NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum 3 Credit Hours** (180 clinical hours)

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade of below B in any course will be reviewed by the MSN/DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades of below B are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- Clinical performance evaluated at a satisfactory level

College of Nursing Master's Program Handbook

All master's students are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing Programs pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the student's MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)

- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1 inch margins:
 - Discuss the impact of the graduate nursing education in your desired track on the evolution of your professional role
 - Describe the path you would take to ensure success in your graduate nursing education
 - Identify one significant contemporary issue or problem in US health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates this can include accomplishments as a student.
- An interview with faculty may also be required..

*For RNs with a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing at gradnurse@ucf.edu or 407-823-2744 for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office (407-823-2744) to speak with an adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Admission to the program is competitive, based on evaluation of the applicant's abilities, past performance, recommendations, FDLE/FBI finger printing and certified background checks, and the match of UCF's master's programs with career goals. The College of Nursing accepts the most qualified students. Since enrollment is limited, not all students who apply may be accepted, even if minimum requirements are met.

Effective August 2017, the College of Nursing will be implementing a database, LEAP*RN (ProjectConcert) to manage information regarding student course work and plans of study, clinical placements, and all evaluation data. This database will assist us in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. All students will be responsible for an annual subscription of \$77.40 payable directly to ProjectConcert. Holds will be placed on registration and enrollment if the subscription cost is not paid. Further information will be disseminated early in the summer

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Christopher PhD

Associate Professor
christopher.blackwell@ucf.edu
Telephone: 407-823-2517
UTWR 453

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nursing MSN, Family Nurse Practitioner Track

College: Nursing	Degree: MSN
Department: Nursing	Option: Nonthesis
Program Websites: http://www.nursing.ucf.edu/	

Track Description

This track will not be accepting applications or enrolling new students effective Fall 2018.

The Master of Science in Nursing (MSN) program in the Family Nurse Practitioner Track prepares nurses for advanced primary care practice in the current healthcare environment based on a strong scientific foundation for practice, flexibility, and emphasis on evidence-based practice and leadership.

The MSN Family Nurse Practitioner Track allows students to sit for certification examinations when they have completed the list of courses required. Certification authorizes them to function in the advanced role. Enrolling in the DNP program is an option after completion of the MSN. The program can be completed in 6 semesters as a full-time student or 8 semesters as a part-time student.

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support the advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

The College of Nursing also offers admission to its master degree programs in nursing to Registered Nurses who have bachelor degrees in fields other than nursing. These students will need to take 8 credits of undergraduate upper-division coursework as a prerequisite for graduate study in nursing. Please contact gradnurse@ucf.edu for more information.

The College also offers an RN to MSN plan of study that provides an accelerated program for RNs who do not hold a baccalaureate degree but have met general education requirements. Students admitted under this plan of study will complete requirements for both the BSN and MSN programs. See RN to MSN program below for more information. A separate application to the graduate program will be required upon completion of the BSN degree. Admission to the MSN program is competitive and not guaranteed.

For information on how this program may prepare you for professional licensure, please contact Dr. Josie Weiss, Director, Family Nurse Practitioner (FNP) and Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP) Programs.

Curriculum

The MSN Family Nurse Practitioner Track requires a minimum of 46 credit hours beyond the baccalaureate degree with 720 hours of clinical practicum. The part-time plan of study for the MSN can be completed in 6 semesters and the full-time plan of study in 4 semesters.

Total Credit Hours Required: 46 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses: 9 Credit Hours

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Required Courses for the MSN: 46 Credit Hours

Core Courses: 24 Credit Hours

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 clinical hours)
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 5884 - Legal and Professional Behavior in Advanced Practice Nursing **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6813 - Evidence Based Nursing Practice **3 Credit Hours**

Specialty Courses: Family Nurse Practitioner: 22 Credit Hours

- NGR 6334 - Women's Health for APNs **2 Credit Hours**
- NGR 6201 - Adult I Primary Care **3 Credit Hours**
- NGR 6240L - Adult I Clinical for APNs **3 Credit Hours** (180 clinical hours)
- NGR 6263 - Gerontologic Care for APNs **3 Credit Hours**
- NGR 6263L - Gerontologic Care Clinical for NPs **2 Credit Hours** (120 clinical hours)
- NGR 6305 - Pediatric Primary Care **3 Credit Hours**
- NGR 6305L - Pediatric Primary Care Clinical **2 Credit Hours** (120 clinical hours)
- NGR 6342L - Women's Health for APNs Clinical **1 Credit Hours** (60 clinical hours)

- **NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum 3 Credit Hours** (180 clinical hours)

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade of below B in any course will be reviewed by the MSN/DNP Admissions, Profession and Graduation Committee for continuation in the program. Grades of below B are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- Clinical performance evaluated at a satisfactory level

College of Nursing Master's Program Handbook

All students completing the master's along the way are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing Programs pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the students MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.

- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1-inch margins:
 - Discuss the impact of the graduate nursing education in your desired track on the evolution of your professional role
 - Describe the path you would take to ensure success in your graduate nursing education
 - Identify one significant contemporary issue or problem in US health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- An interview with faculty may also be required.

*For RNs with a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office (407-823-2744) to speak with an adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice. Students are admitted to the program in the fall for the program of study; however, spring admissions are possible for a revised plan of study.

Admission to the program is competitive, based on evaluation of the applicant's abilities, past performance, recommendations, FDLE/FBI fingerprinting and certified background checks, and the match of UCF's master's programs with career goals. The College of Nursing accepts the most qualified students. Since enrollment is limited, not all students who apply may be accepted, even if minimum requirements are met.

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Financials

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Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Josie Weiss PhD, RN, FNP-BC, PNP-BC, ANP-BC, FNAP, FAANP

Associate Professor

josie.weiss@ucf.edu

Telephone: 407-823-2198

OTC4 454

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

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UCF Student Financial Assistance

Millican Hall 120

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Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Nursing MSN, Leadership and Management Track ►

College: Nursing	Degree: MSN
Department: Nursing	Option: Nonthesis
Program Websites: http://www.nursing.ucf.edu/	
Graduate Program Handbook	

Track Description

The Master of Science in Nursing (MSN) programs build upon the student's baccalaureate nursing education and professional experience. The Master of Science in Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE).

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support advanced nursing practice.
- Plan, evaluate, and implement the delivery of health care using critical thinking skill in an advanced nursing role.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Nursing-MSN-Online-Leadership-and-Management.pdf>.

NOTE FOR INTERNATIONAL STUDENTS: Please contact the College of Nursing at gradnurse@ucf.edu or 407-823-2744 prior to applying to this online program.

Please note: Nursing (MSN) - Leadership and Management may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

Curriculum

The Leadership and Management track of the MSN is designed to equip nurses with the managerial and leadership skills necessary to become administrative leaders in the health care industry. The program requires 36 credit hours of coursework and includes leadership practicum experiences.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses—9 Credit Hours

Students who are Registered Nurses and have completed an AS in Nursing or diploma nursing program and have a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Required Courses—36 Credit Hours

- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 5884 - Legal and Professional Behavior in Advanced Practice Nursing **3 Credit Hours**
- NGR 5720 - Organizational Dynamics **3 Credit Hours**
- NGR 5871 - Health Care Informatics **3 Credit Hours**
- NGR 6722 - Financial Management and Resource Development **3 Credit Hours**
- NGR 6723 - Nursing Leadership and Management **3 Credit Hours**
- NGR 6723L - Nursing Leadership Role Specialization Practicum **3 Credit Hours** (135 clinical hours)
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6813 - Evidence Based Nursing Practice **3 Credit Hours** (Scholarly Project)
- NGR 6874 - Nursing Environment Management **3 Credit Hours**
- NGR 6772L - Nurse Leadership and Management Internship **3 Credit Hours** (180 clinical hours)
- Graduate Elective **3 Credit Hours**

College of Nursing Master's Program Handbook

All master's students are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing programs pay a \$90 equipment fee each semester that they are enrolled. Part-time students pay \$45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the students MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- RN license the state in which you practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue/ problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an MSN adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

*Licensed RNs who have completed an AS in Nursing or diploma nursing program and Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

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Application Deadlines

Leadership and Management	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1	Sept 1	
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Nora Warshawsky PhD, RN, CNE, NEA-BC, FAAN

Professor

nora.warshawsky@ucf.edu

Telephone: 407-823-5468
UTWR 473

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Nursing MSN, Nurse Educator Track ►

College: Nursing	Degree: MSN
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Department: Nursing	Option: Nonthesis
Program Websites: http://www.nursing.ucf.edu/	
Graduate Program Handbook	

Track Description

The Master of Science in Nursing (MSN) programs build upon the student's baccalaureate nursing education and professional experience. The Master of Science in Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE). The Nurse Educator track is delivered fully online. It prepares nurse educators for teaching positions in colleges and universities, as well as practice settings.

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Online-Nurse-Educator-MSN.pdf>.

Please note: Nursing (MSN)-Nurse Educator may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

Curriculum

The Nurse Educator Track in the Nursing MSN program requires 18 credit hours of nursing courses and 17 credit hours of education courses for a total of 35 credit hours of graduate coursework.

Total Credit Hours Required: 35 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses—9 Credit Hours

Students who are licensed RNs who have completed an AS in Nursing or diploma nursing program and have a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Required Nursing Courses—18 Credit Hours

- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 5884 - Legal and Professional Behavior in Advanced Practice Nursing **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6813 - Evidence Based Nursing Practice **3 Credit Hours** (Scholarly Project)

Required Education Courses—17 Credit Hours

- NGR 6713 - Curriculum Development in Nursing Education **3 Credit Hours**
- NGR 6791 - Teaching Strategies for Nurse Educators **3 Credit Hours**
- NGR 6718 - Evaluation in Nursing Education **3 Credit Hours**
- NGR 6942C - Internship in Nursing Education **4 Credit Hours** (1,3 credit hours, 180 clinical hours)
- NGR 6945L - Clinical Specialty Practicum **1 Credit Hours** (Family, Adult or Community) for Nurse Education (1 credit hour, 60 clinical hours)
- NGR 5190 - Core Clinical Concepts for Nurse Educators **3 Credit Hours**

College of Nursing Master's Program Handbook

All master's students are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing programs pay a \$90 equipment fee each semester that they are enrolled. part-time students pay \$45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the last or next to last semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the students MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- RN license the state in which you practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue/ problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an MSN adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

*Licensed RNs who have completed an AS in Nursing or diploma nursing program and Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Upon admission to the program, students will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. A student must be able to meet clinical partner background requirement to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Nurse Educator	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1	Sept 1	
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Susan Quelly PhD, RN, CNE

Associate Professor

susan.quelly@ucf.edu

Telephone: 407.823.0645
UTWR 428

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Institution Codes

GRE: 5233
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finaid@ucf.edu
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Nursing MSN, Nursing and Health Care Simulation Track ►

College: Nursing	Degree: MSN
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Department: Nursing	Option: Nonthesis
Program Websites: http://www.nursing.ucf.edu/	
Graduate Program Handbook	

Track Description

The Master of Science in Nursing (MSN) program builds upon the student's baccalaureate nursing education and professional experience.

The MSN program is accredited by the Commission on Collegiate Nursing Education (CCNE). The Nursing and Health Care Simulation Track is delivered online with some required campus activities. It prepares simulation-based educators for positions in colleges and universities, as well as in practice settings.

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

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This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Nursing-MSN-Online-Nursing-and-Health-Care-Simulation.pdf>.

Please note: Nursing (MSN) - Nursing and Health Care Simulation may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

Curriculum

The MSN Nursing and Health Care Simulation Track require a minimum of 31 credit hours beyond the baccalaureate degree, including 28 credit hours of required courses and 3 credit hours of electives.

Total Credit Hours Required: 31 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisite Courses: 9 Credit Hours

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice **3 Credit Hours**
- NUR 4637 - Public Health Nursing **3 Credit Hours**
- NUR 3165 - Nursing Research **3 Credit Hours**

Required Courses: 28 Credit Hours

Core Courses: 19 Credit Hours

- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5190 - Core Clinical Concepts for Nurse Educators **3 Credit Hours**
- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 5884 - Legal and Professional Behavior in Advanced Practice Nursing **3 Credit Hours**
- NGR 6801 - Research Methods **3 Credit Hours**
- NGR 6813 - Evidence Based Nursing Practice **3 Credit Hours** (Scholarly Project)
- NGR 6945L - Clinical Specialty Practicum **1 Credit Hours** (60 clinical hours)

Required Simulation Courses: 9 Credit Hours

- NGR 6717 - Introduction to Healthcare Simulation **3 Credit Hours**
- NGR 6794 - Organizational Leadership and Operations in Healthcare Simulation **3 Credit Hours**
- NGR 6978 - Healthcare Simulation Capstone Project **3 Credit Hours**

Elective Courses: 3 Credit Hours

May be taken in other colleges with permission of adviser and faculty presenting the course.

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 5720 - Organizational Dynamics **3 Credit Hours**

- NGR 6722 - Financial Management and Resource Development **3 Credit Hours**
- NGR 6713 - Curriculum Development in Nursing Education **3 Credit Hours**
- NGR 6718 - Evaluation in Nursing Education **3 Credit Hours**
- NGR 6791 - Teaching Strategies for Nurse Educators **3 Credit Hours**
- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours**
- IDS 6148 - Human Systems Integration for Modeling and Simulation **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- NGR 6771L - Healthcare Simulation Practicum **VAR Credit Hours**

College of Nursing Master's Program Handbook

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Independent Learning

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For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

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- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- RN license the state in which you practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
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 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue/ problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.

- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

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Upon admission to the program, students will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. A student must be able to meet clinical partner background requirement to continue in the program.

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Application Deadlines

Nursing and Health Care Simulation	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Apr 1	Sept 1	
International Applicants				
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Contact Info

Graduate Program

Mindi Anderson PhD, APRN, CPNP-PC, CNE, CHSE-A, ANEF, FAAN
Professor and Program Director, Nursing and Health Care Simulation Programs
mindi.anderson@ucf.edu
Telephone: 407-823-1956
UTWR 455

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Grad Fellowships
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gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Optics and Photonics MS

College: Optics and Photonics	Degree: MS
Program Websites: http://www.creol.ucf.edu/	Option: Thesis, Nonthesis
Graduate Program Handbook	

Program Description

The Master of Science in Optics and Photonics program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program is interdisciplinary and combines optical science and engineering.

The College of Optics and Photonics offers an interdisciplinary graduate program in optical science and engineering leading to a Master of Science in Optics and Photonics. The college has grown rapidly and now has 55 faculty members and faculty with joint appointments, 41 research scientists and 148 graduate students with research activities covering all aspects of optics, photonics, and lasers. Research expenditures are over \$10 million annually, with over 20 percent of the funding coming from industrial partners, illustrating the effectiveness of the commitment to partnerships that is a foundational value of the COP.

Research activities cover all aspects of optics, photonics, and lasers, and the Center for Research and Education in Optics and Lasers (CREOL), the Florida Photonics Center of Excellence (FPCE), and the Townes Laser Institute (TLI) are integral parts of the College. Current research areas include: linear and nonlinear guided-wave optics and devices, high speed photonic telecommunications, fiber optic fabrication, fiber optic communications, solid state laser development, nonlinear optics, laser-induced damage, quantum-well optoelectronics, quantum optics, photonic information processing, infrared systems, optical diagnostics, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, X-ray optics, EUV sources, optical glasses, laser materials processing, free-electron lasers, and light matter interaction.

The MS program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program's mission is to:

- Provide the highest-quality education in optical science and engineering
- Conduct scholarly, fundamental, and applied research
- Aid in the development of Florida's and the nation's technology-based industries

Program Tracks

- Optics and Photonics MS, International Track
- Optics and Photonics MS, Optics Track
- Optics and Photonics MS, Photonics Track

Curriculum

The Optics and Photonics MS program (No Track) requires a minimum of 30 credit hours beyond the bachelor's degree. The program offers a thesis and nonthesis option. Students are allowed considerable freedom in planning their study programs, although some foundation Optics courses are strongly recommended as core courses.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Additional notes on the curriculum:

- A minimum of 24 credit hours of formal graduate courses is required in the thesis option of which at least 12 credit hours must be formal Optics (prefix OSE) courses. A minimum of 27 credit hours of formal graduate courses is required in the nonthesis option of which at least 18 credit hours must be formal Optics (prefix OSE) courses. The remaining credit hours can be a thesis or other elective and research courses as permitted in the option.
- Up to nine credit hours of appropriate graduate courses from accredited universities may be transferred with approval from the College of Optics and Photonics. Only courses with grades of "B" or better can be transferred.

Required Courses: 9 Credit Hours

Core: 9 Credit Hours

The following foundation courses are required.

- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**
OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering

Elective Courses: 15 Credit Hours

All students are required to take a minimum of 15 credit hours of electives.

Other courses with significant optics content may be accepted towards the Optics (OSE) course work requirement, upon approval by the Associate Dean.

A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.

Comprehensive Examination

An oral master's comprehensive examination, based on the core courses (OSE 5115 Interference, Diffraction and Coherence, OSE 6111 Optical Wave Propagation, and OSE 5525 Laser Engineering) must be passed as a graduation requirement for the MS degree in Optics and Photonics. Students will be required to take this exam within one semester after completing the core courses.

The exam may be taken twice. After failing on the second attempt, the student will be required to re-take the courses covering the areas in which the examination committee determined the student to be deficient. The retaken courses must be passed with a minimum grade of B+ in order for the student to graduate.

This Comprehensive Examination requirement may be satisfied by passing the Optics and Photonics PhD Qualifying exam.

Thesis Option: 6 Credit Hours

The thesis option requires at least 6 credit hours of thesis research.

Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved program of study and form a thesis committee upon completion of nine credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.

- OSE 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires an additional 6 credit hours of electives.

Up to 3 credit hours of directed research (OSE 6918) or research report (OSE 6909) may be included as electives with prior approval of the College of Optics and Photonics although they are not counted toward the required 27 credit hours of formal coursework. Students must prepare an approved plan of study upon completion of nine credit hours.

The research report is a written report on a subject based on research completed under the guidance of a faculty advisor who is a member of the graduate faculty in the College of Optics and Photonics. The subject matter will be determined by advisor and should be on some aspect of experimental, theoretical, or literature research in the area of optics and photonics. Normally the research and report should be completed within one semester. The written report should contain between 5,000 and 10,000 words and should roughly follow the format of a scientific journal paper. The report will be evaluated by a committee consisting of the advisor and two other faculty members. The student will be expected to present a brief oral presentation of the work to the committee, not less than 5 business days after submitting the written report to the committee and prior to the last day of classes in the semester. The report will be graded on a satisfactory/unsatisfactory basis by the advisor, based on the input from the committee.

- Electives **6 Credit Hours**

Independent Learning

Nonthesis students engage in directed research or research report. Thesis students enroll in 6 hours of thesis credits during the completion of their research study.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- A GRE score is not required for admission to the Optics and Photonics MS program.
- Personal Statement: a brief 1 page or less statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Application Deadlines

Optics and Photonics MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

M. G. "Jim" Moharam PhD

Interim Associate Dean
moharam@creol.ucf.edu
Telephone: 407-823-6833
CREOL 209

Alma Montelongo

gradprog@creol.ucf.edu
Telephone: 407-823-4726
CREOL Room 208

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Optics and Photonics MS, International Track

College: Optics and Photonics	Degree: MS
Program Websites: http://www.creol.ucf.edu/	Option: Thesis, Nonthesis

Track Description

NOTE: The Optics and Photonics MS program is not currently accepting applications for the International Track. For additional information, please contact 407-823-6986 or gradprog@creol.ucf.edu.

The International track in the Optics and Photonics MS program is intended for those students involved in an international exchange program with particular programs in other countries as approved by the university and the College of Optics and Photonics. The requirements for this track are the same as the general MS program.

Curriculum

The International Track in the Optics and Photonics MS program requires a minimum of 30 credit hours beyond the bachelor's degree. The program offers a thesis and nonthesis option. Students are allowed considerable freedom in planning their study programs, although some foundation Optics courses are strongly recommended as core courses and two research methods/laboratory courses are required.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Additional notes on the curriculum:

- A minimum of 24 credit hours of formal graduate courses is required in the thesis option of which at least 12 credit hours must be formal Optics (prefix OSE) courses. A minimum of 27 credit hours of formal graduate courses is required in the nonthesis option of which at least 18 credit hours must be formal Optics (prefix OSE) courses. The remaining credit hours can be a thesis or other elective and research courses as permitted in the option.
- In addition, the following requirements must be satisfied:
 - For this track, 18 credit hours must be taken at UCF and 12 credit hours of coursework must be taken at the partner university. These hours must be taken from an approved list maintained by the college and made available on the college website. Courses other than those on the list must be approved by the College of Optics and Photonics Curriculum Committee. If the thesis option is selected, the thesis hours must be taken at UCF.
 - At least 6 credit hours of approved optics or related science and engineering research methods/laboratory courses are required in both options. At least one must be in Optics or an approved Optics substitute.
- Language requirements. Students must demonstrate competency in the primary language of the partner university or else must take at least 6 hours of appropriate undergraduate language courses prior to traveling to the partner university.

Required Courses: 15 Credit Hours

Core Courses: 9 Credit Hours

The following foundation courses are strongly recommended for all students unless they can demonstrate knowledge sufficient to waive the course in which case they will take an additional elective.

- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**

Research Methods/Laboratory: 6 Credit Hours

At least 6 credit hours of approved Optics and related science/engineering research methods/laboratory courses are required from the list below. At least one must be in Optics (OSE). One required laboratory may be waived if the student can demonstrate an equivalent hands-on proficiency in that laboratory specialization. These research methods/laboratory courses count toward the formal graduate course work requirement.

- OSE 6455C - Photonics Laboratory **3 Credit Hours**
- OSE 6526C - Laser Engineering Laboratory **3 Credit Hours**
- OSE 6615L - Optoelectronic Device Fabrication Laboratory **3 Credit Hours**
- Other graduate-related science and engineering methodology labs may be taken with approval by the College of Optics and Photonics.

Elective Courses: 9 Credit Hours

All students are required to take a minimum of 9 credit hours of electives.

Other courses with significant optics content may be accepted toward the Optics (OSE) course work requirement, upon approval by the Associate Dean.

A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.

Thesis Option: 6 Credit Hours

The thesis option requires at least 6 credit hours of thesis research.

Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved program of study and form a thesis committee upon completion of nine credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.

- OSE 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires an additional 6 credit hours of electives.

Up to 3 credit hours of directed research (OSE 6918) or research report (OSE 6909) may be included with prior approval of the College of Optics and Photonics although they are not counted toward the formal course work requirement. Students must prepare an approved program of study upon completion of nine credit hours. Students are required to pass a final oral comprehensive examination based primarily on the subject matter of the courses taken. The purpose of the exam is for the student to demonstrate his or her basic knowledge of the fundamentals of optics and photonics.

The nonthesis master's requires a minimum of two methods/laboratory courses as described above. These laboratory courses involve a substantial amount of independent learning on the part of the student. For example, laboratory reports

must include sections on the theoretical and historical background behind the phenomena explored in laboratory experiments, and students are expected to obtain this background information on their own by researching the scientific literature. One required Optics laboratory may be waived if the student can demonstrate an equivalent hands-on proficiency in that laboratory specialization. These methodology/laboratory courses count toward the formal course work requirement.

- Electives **6 Credit Hours**

Independent Learning

All students must take a minimum of two graduate methodology/laboratory courses in Optics or a closely related field that include experiments, research and laboratory reports. Nonthesis students also engage in directed research or research report. Thesis students enroll in 6 hours of thesis credits during the completion of their research study.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- A GRE score is not required for admission to the Optics and Photonics MS, International Track program.
- Personal Statement: a brief, 1-2 page statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Interim Associate Dean
moharam@creol.ucf.edu
Telephone: 407-823-6833
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Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827

Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Optics and Photonics MS, Optics Track

College: Optics and Photonics	Degree: MS
Program Websites: http://www.creol.ucf.edu/	Option: Thesis, Nonthesis

Track Description

The Optics Track in the Master of Science in Optics and Photonics program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program is interdisciplinary and combines optical science and engineering.

Curriculum

The Optics Track in the Optics and Photonics MS program requires a minimum of 30 credit hours beyond the bachelor's degree. The program offers thesis and nonthesis options. Students are allowed some freedom in planning their study programs, although some foundation Optics courses are strongly recommended as core courses.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Additional notes on the curriculum:

- A minimum of 24 credit hours of formal graduate courses is required in the thesis option, of which at least 12 credit hours must be formal Optics (prefix OSE) courses. A minimum of 27 credit hours of formal graduate courses is required in the nonthesis option, of which at least 18 credit hours must be formal Optics (prefix OSE) courses. The remaining credit hours can be a thesis or other elective and research courses as permitted in the option.
- Up to 9 credit hours of appropriate graduate courses from accredited universities may be transferred with approval from the College of Optics and Photonics. Only courses with grades of "B" or better can be transferred.

Required Courses: 18 Credit Hours

Core: 18 Credit Hours

The following foundation courses are required.

- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 5203 - Geometrical Optics **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 6211 - Imaging and Optical Systems **3 Credit Hours**
- OSE 6265 - Optical Systems Design **3 Credit Hours**

- **OSE 5525 - Laser Engineering 3 Credit Hours**
OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering

Elective Courses: 6 Credit Hours

All students are required to take a minimum of 6 credit hours of electives.

Other courses with significant optics content may be accepted toward the Optics (OSE) course work requirement, upon approval by the Associate Dean.

A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.

Thesis Option: 6 Credit Hours

The thesis option requires at least 6 credit hours of thesis research.

Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved plan of study and form a thesis committee upon completion of 9 credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.

- **OSE 6971 - Thesis 6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires an additional 6 credit hours of courses or electives.

Up to 3 credit hours of Research Report (OSE 6909) may be included.

For students in a nonthesis option, a Research Report may be completed in the last term of study. The Optics or Photonics master's tracks require a research report in the nonthesis option, but this is optional in the general MS degree.

The research report is a written report on a subject based on research completed under the guidance of a faculty adviser who is a member of the graduate faculty in the College of Optics and Photonics. The subject matter will be determined by the adviser and should be on some aspect of experimental, theoretical, or literature research in the area of optics and photonics. Normally, the research and report should be completed within one semester. The written report should contain between 5,000 and 10,000 words and should roughly follow the format of a scientific journal paper. The report will be evaluated by a committee consisting of the adviser and two other faculty members. The student will be expected to present a brief oral presentation of the work to the committee, not less than 5 business days after submitting the written report to the committee and prior to the last day of classes in the semester. The report will be graded on a satisfactory/unsatisfactory basis by the adviser, based on the input from the committee.

Students must select an adviser from the College of Optics and Photonics faculty to serve on their Research Report. Students must prepare an approved plan of study upon completion of 9 credit hours. Students are required to pass a final oral comprehensive examination based primarily on the subject matter of the courses taken. The purpose of the exam is for the student to demonstrate his or her basic knowledge of the fundamentals of optics and photonics.

- **Elective course 6 Credit Hours**

Comprehensive Examination

An oral master's comprehensive examination, based on the core courses (OSE 5115 Interference, Diffraction and Coherence, and OSE 6111 Optical Wave Propagation, and OSE 5525 Laser Engineering or OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering) must be passed as a graduation requirement for the MS degree in Optics and Photonics. Students will be required to take this exam within one semester after completing the core courses.

The exam may be taken twice. After failing on the second attempt, the student will be required to re-take the courses covering the areas in which the examination committee determined the student to be deficient. The retaken courses must be passed with a minimum grade of B+ in order for the student to graduate.

This Comprehensive Examination requirement may be satisfied by passing the Optics and Photonics Ph.D. Qualifying exam.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- A GRE score is not required for admission to the Optics and Photonics MS Program (OpticsTrack).
- Personal Statement: a brief, 1 page or less statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Application Deadlines

Optics	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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Graduate Admissions

Ashley Rivera Mercado

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Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
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Graduate Fellowships

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Telephone: 407-823-0127

gradfellowship@ucf.edu

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Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Optics and Photonics MS, Photonics Track

College: Optics and Photonics	Degree: MS
Program Websites: http://www.creol.ucf.edu/	Option: Thesis, Nonthesis

Track Description

The Photonics Track in the Optics and Photonics MS program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program is interdisciplinary and combines optical science and engineering.

Curriculum

The Photonics Track in the Optics and Photonics MS program requires a minimum of 30 credit hours beyond the bachelor's degree. The program offers thesis and nonthesis options. Students are allowed some freedom in planning their study programs, although some foundation Optics courses are strongly recommended as core courses.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Additional notes on the curriculum:

- A minimum of 24 credit hours of formal graduate courses is required in the thesis option, of which at least 12 credit hours must be formal Optics (prefix OSE) courses. A minimum of 27 credit hours of formal graduate courses is required in the nonthesis option, of which at least 18 credit hours must be formal Optics (prefix OSE) courses. The remaining credit hours can be a thesis or other elective and research courses as permitted in the option.
- Up to 9 credit hours of appropriate graduate courses from accredited universities may be transferred with approval from the College of Optics and Photonics. Only courses with grades of "B" or better can be transferred.

Required Courses: 18 Credit Hours

Core: 18 Credit Hours

- OSE 5414 - Fundamentals of Optoelectronic Devices **3 Credit Hours**
- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**
- OSE 6421 - Integrated Photonics **3 Credit Hours**
- OSE 6474 - Fundamentals Optical Fiber Communications **3 Credit Hours**
OSE 6536 Semiconductor Lasers maybe used as a substitute for OSE 5525 Laser Engineering

Elective Courses: 6 Credit Hours

All students are required to take a minimum of 6 credit hours of electives.

Other courses with significant optics content may be accepted toward the Optics (OSE) coursework requirement, upon approval by the Associate Dean.

A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.

Thesis Option: 6 Credit Hours

The thesis option requires at least 6 credit hours of thesis research.

Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved plan of study and form a thesis committee upon completion of 9 credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.

- OSE 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires an additional 6 credit hours of courses or electives.

Up to 3 credit hours of Research Report (OSE 6909) may be included.

For students in a non-thesis option, a Research Report may be completed in the last term of study. The Optics or Photonics Masters tracks require a research report in the non-thesis option, but this is optional in the general MS degree.

The research report is a written report on a subject based on research completed under the guidance of a faculty advisor who is a member of the graduate faculty in the College of Optics and Photonics. The subject matter will be determined by advisor and should be on some aspect of experimental, theoretical, or literature research in the area of optics and photonics. Normally the research and report should be completed within one semester. The written report should contain between 5,000 and 10,000 words and should roughly follow the format of a scientific journal paper. The report will be evaluated by a committee consisting of the advisor and two other faculty members. The student will be expected to present a brief oral presentation of the work to the committee, not less than 5 business days after submitting the

written report to the committee and prior to the last day of classes in the semester. The report will be graded on a satisfactory/unsatisfactory basis by the advisor, based on the input from the committee.

Students must select an adviser from the College of Optics and Photonics Faculty to serve on their Research Report. Students must prepare an approved plan of study upon completion of 9 credit hours. Students are required to pass a final oral comprehensive examination based primarily on the subject matter of the courses taken. The purpose of the exam is for the student to demonstrate his or her basic knowledge of the fundamentals of optics and photonics.

- Elective course **6 Credit Hours**

Comprehensive Examination

An oral master's comprehensive examination, based on the core courses (OSE 5115 Interference, Diffraction and Coherence, OSE 6111 Optical Wave Propagation, and OSE 5525 Laser Engineering or OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering) must be passed as a graduation requirement for the MS degree in Optics and Photonics. Students will be required to take this exam within one semester after completing the core courses.

The exam may be taken twice. After failing on the second attempt, the student will be required to re-take the courses covering the areas in which the examination committee determined the student to be deficient. The retaken courses must be passed with a minimum grade of B+ in order for the student to graduate.

This Comprehensive Examination requirement may be satisfied by passing the Optics and Photonics Ph.D. Qualifying exam.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- A GRE score is not required for admission to the Optics and Photonics MS Program (PhotonicsTrack).
- Personal Statement: a brief, 1 page or less statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Application Deadlines

Photonics	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

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M. G. "Jim" Moharam PhD

Interim Associate Dean
moharam@creol.ucf.edu
Telephone: 407-823-6833
CREOL Room 209

Alma Montelongo

gradprog@creol.ucf.edu
Telephone: 407-823-4726
CREOL Room 208

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Physics MS

College: Sciences	Degree: MS
Department: Physics	Option: Thesis, Nonthesis
Program Websites: http://www.physics.ucf.edu/	
Graduate Program Handbook	

Program Description

The University of Central Florida offers a Master of Science in Physics. Research opportunities are available in condensed matter physics, nanostructure devices, surface science, optical physics, complex systems, biophysics, atomic and molecular physics, physics education and planetary/space science.

Program Tracks

- Physics MS, Planetary Sciences Track

Curriculum

The Physics MS program requires a minimum of 30 credit hours beyond the bachelor's degree and offers students a thesis and nonthesis option. All students take 12 credit hours of core courses, and then the remaining 18 credit hours consist of both electives and thesis or directed research according to the option chosen.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The Master of Science in Physics program is flexibly designed to prepare students for the widest possible range of industrial careers or for further study at the doctoral level. Courses must be selected so that at least one-half of the required courses are taken at the 6000 level.

Students pursuing a nonthesis master's degree must take at least one directed research course as part of their elective work. In this course, students will work on a research project under the supervision of a faculty member and present a final report.

Required Courses: 12 Credit Hours

- PHY 5606 - Quantum Mechanics I **3 Credit Hours**
- PHY 5346 - Electrodynamics I **3 Credit Hours**
- PHY 5524 - Statistical Physics **3 Credit Hours**
- PHY 6246 - Classical Mechanics **3 Credit Hours**

Elective Courses: 18 Credit Hours

Both thesis and nonthesis students take electives in consultation with their advisers. Out of the 18 elective credit hours at least 12 credit hours of formal course work are required and not more than 6 credit hours of 5000-level elective courses are counted toward the degree. At least 6 credit hours of thesis or 3 credit hours of directed research for the nonthesis option are required. Otherwise, elective selection is intended to be very flexible to meet student needs and interests. Electives may be chosen following one of the suggested specializations below, or a different program of study may be followed with academic adviser approval.

Materials Physics Specialization

- PHY 6624 - Quantum Mechanics II **3 Credit Hours**
- PHY 6347 - Electrodynamics II **3 Credit Hours**
- PHZ 6426 - Condensed Matter Physics I **3 Credit Hours**
- PHZ 6428 - Condensed Matter Physics II **3 Credit Hours**
- PHZ 5505 - Plasma Physics **3 Credit Hours**
- PHZ 5432 - Introduction to Soft Condensed Matter Physics **3 Credit Hours**
- PHY 5715 - Physical Basis of Life **3 Credit Hours**
- PHY 5933 - Selected topics in biophysics of macromolecules **3 Credit Hours**
- PHZ 6420 - First Principles Computational Methods in Condensed Matter Physics **3 Credit Hours**
- PHY 6938 - Theory and Computation of Molecular Wave Functions **3 Credit Hours**

- PHY 6938 - Selected Topics in Scattering Theory **3 Credit Hours**
- EEE 5356C - Fabrication of Solid-State Devices **4 Credit Hours**

Other graduate courses from Physics, Math, Optics, Materials Science, Engineering require approval by the student's adviser and the Graduate Program Director.

Optical Physics Specialization

- PHY 6624 - Quantum Mechanics II **3 Credit Hours**
- PHY 6347 - Electrodynamics II **3 Credit Hours**
- PHY 6938 - Theory and Computation of Molecular Wave Functions **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**
- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 6526C - Laser Engineering Laboratory **3 Credit Hours**
- OSE 6455C - Photonics Laboratory **3 Credit Hours**
- OSE 6347 - Quantum Optics **3 Credit Hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**

Other graduate courses from Physics, Math, Optics, Materials Science, Engineering require approval by the student's adviser and the Graduate Program Director.

Space Physics Specialization

- PHY 6624 - Quantum Mechanics II **3 Credit Hours**
- PHY 6347 - Electrodynamics II **3 Credit Hours**
- PHZ 5505 - Plasma Physics **3 Credit Hours**
- AST 5334 - Extrasolar Planets and Brown Dwarfs **3 Credit Hours**
- EAS 5315 - Rocket Propulsion **3 Credit Hours**
- EAS 6405 - Advanced Flight Dynamics **3 Credit Hours**
- EAS 6507 - Topics of Astrodynamics **3 Credit Hours**
- OSE 5041 - Introduction to Wave Optics **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**

Theory/Computational Physics Specialization

- PHY 6624 - Quantum Mechanics II **3 Credit Hours**
- PHY 6347 - Electrodynamics II **3 Credit Hours**
- PHZ 6420 - First Principles Computational Methods in Condensed Matter Physics **3 Credit Hours**
- PHY 6938 - Theory and Computation of Molecular Wave Functions **3 Credit Hours**
- PHY 6938 - Selected Topics in Scattering Theory **3 Credit Hours**
- PHZ 6426 - Condensed Matter Physics I **3 Credit Hours**
- PHZ 6428 - Condensed Matter Physics II **3 Credit Hours**
- PHY 6667 - Quantum Field Theory I **3 Credit Hours**
- PHY 7669 - Quantum Field Theory II **3 Credit Hours**
- PHZ 5505 - Plasma Physics **3 Credit Hours**
- OSE 6347 - Quantum Optics **3 Credit Hours**
- OSE 5312 - Light Matter Interaction **3 Credit Hours**

Other graduate courses from Physics, Math, Optics, Materials Science, Engineering require approval by the student's adviser and the Graduate Program Director.

Thesis Option: 6 Credit Hours

Students who choose the thesis option are required to conduct a program of original scientific research or some investigation involving a creative element and to submit a written thesis detailing these investigations. An oral defense and examination of the thesis is required. These six credit hours count towards the 18 hours of required electives for the degree. An exit interview conducted by the Graduate Program Director is required after passing the thesis defense.

- PHY 6971 - Thesis **6 Credit Hours**

Nonthesis Option: 3 Credit Hours

Nonthesis students are required to take 15 credit hours of electives from the list of elective specializations shown above. In addition, they must take a minimum of 3 credit hours of directed research. The three credit hours of directed research count towards the 18 hours of required electives for the degree. In the directed research course, students work on a research project under the supervision of a faculty member and are required to present a final report as well as a written comprehensive exit examination*. The Graduate Program Director will arrange this exam. The exit exam is followed by an exit interview.

- PHY 6918 - Directed Research **3 Credit Hours**

*Note: When applicable, students in the non-thesis MS degree program may request to satisfy the MS exit exam with the completion of the Physics PhD written candidacy exam.

Independent Learning

Students pursuing a nonthesis master's degree must take at least one directed research course as part of their elective work. In this course, students will work on a research project under the supervision of a faculty member and present a final report.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Financial support is not usually provided to MS students. Those who are interested in financial support may manifest it in their application or consider applying to the PhD program instead.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- Statement of goals. The final 1-2 paragraphs of each applicant's personal statement should make explicitly clear which research areas and faculty they have interest in working with within our program.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Note: Applicants to the MS Bridge Program that are admitted with a GPA below the minimum required may not exceed 50% of the total number of admitted MS students.

Students entering the Physics graduate program with regular status are normally expected to have completed coursework generally required for a bachelor's degree in physics, including mechanics, electricity and magnetism, thermal and statistical physics, and quantum mechanics.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Physics MS	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Abdelkader Kara PhD

Professor

Abdelkader.Kara@ucf.edu

Telephone: 407-823-5146

PSB 303

Esperanza Soto Arcino
Graduate Admissions Coordinator
soto@ucf.edu
Telephone: 407-823-5146
PSB 432

Graduate Admissions

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
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Physics MS, Planetary Sciences Track

College: Sciences	Degree: MS
Department: Physics	Option: Thesis
Program Websites: https://sciences.ucf.edu/physics/	
Graduate Program Handbook	

Track Description

The goal of the Planetary Sciences Track in the Physics MS program is to foster a vibrant planetary science research environment that can attract top students, researchers, and faculty and contribute significantly to the exploration of space. The Planetary Sciences track is designed to prepare students to be competitive in the global planetary sciences research community.

Curriculum

The Planetary Sciences track in the Physics MS program requires a minimum of 33 hours of graduate course work as directed by the student's Supervisory Committee. This must include at least 15 credit hours of required courses, 6 hours of thesis preparation, with the remainder being elective courses and directed research chosen in consultation with the Supervisory Committee. At least half of the total credits must be at the 6000 level. No more than 6 hours of independent study may be credited toward the master's degree. The master's degree in Planetary Sciences includes a thesis and its defense. There is no nonthesis master's degree in the Planetary Sciences track.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

The core is designed to give students a broad foundation in the planetary sciences and rapid training in the data analysis techniques that will be necessary for successful research and publications. Students choose 5 out of the 6 core courses listed below:

- AST 5151 - Physics of Planetary Processes **3 Credit Hours**
- PHY 6246 - Classical Mechanics **3 Credit Hours**
- AST 5765C - Advanced Astronomical Data Analysis **3 Credit Hours**
- AST 5263 - Advanced Observational Astronomy **3 Credit Hours**
- AST 5154 - Advanced Planetary Geophysics **3 Credit Hours**
- AST 6165 - Planetary Atmospheres **3 Credit Hours**

Elective Courses: 12 Credit Hours

Students may enroll in elective formal courses relevant to their program, as approved by their Supervisory Committees. Suggestions include:

- AST 5145 - Advanced Asteroids, Comets, and Meteorites **3 Credit Hours**
- AST 5334 - Extrasolar Planets and Brown Dwarfs **3 Credit Hours**
- PHY 5937 - Astrobiology **3 Credit Hours**

- AST 6112 - Origin and Evolution of Planetary Systems **3 Credit Hours**
- AST 6156 - Current Topics in Planetary Sciences **3 Credit Hours**

Thesis: 6 Credit Hours

- AST or PHY 6971 - Thesis **6 Credit Hours**

Supervisory Committee

Within the first half-semester of admission to the Planetary Sciences Track, each student must select, by mutual agreement, a faculty adviser and at least two other faculty members to serve on his or her Supervisory Committee. UCF graduate faculty and self-funded research scientists who are Graduate Faculty Scholars are eligible to serve on Supervisory Committees. Changes in the membership of a Supervisory Committee must be approved by the Planetary Sciences Graduate Committee. The adviser is expected to meet regularly with the student. The full committee shall meet with the student at least once per year to review and make recommendations regarding the student's academic progress.

Master's Defense

The written thesis and oral defense is the final requirement for the master's degree. The thesis is a journal-level research paper. The oral defense is in two parts: (1) A public presentation of the research contained in the paper; and (2) private questioning on the detail of the presented research as well as the topics covered in the student's preparation and coursework. The written and oral components will be administered by the student's Supervisory Committee.

Independent Learning

A thesis is required in this program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in a closely related science field such as physics, chemistry, geology, geophysics, geochemistry, atmospheric sciences biology, mathematics or planetary sciences.
- Three letters of recommendation.
- Statement of goals.
- CV or Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants interested in being considered for assistantship and fellowship opportunities should apply directly to the Physics PhD program.

Additional courses may also be required to correct any course deficiencies for those applicants without full preparation in physics and astronomy. Students should contact the graduate program director for further information.

Current students in the existing Physics graduate program wishing to switch to the Planetary Sciences track must submit a letter to the Planetary Science Graduate Committee addressed to Dr. Dan Britt. The letter should include the request to join the planetary sciences track, the student's degree goal (Masters), the name of the student's planetary sciences adviser, and a brief description of their expected area of research. Upon departmental approval, a Graduate Status Change Form will be submitted to the College of Graduate Studies.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree. For information on the Planetary Sciences track contact the Planetary Sciences Graduate Advisor Dr. Dan Britt at 407-823-2600 or dbritt@ucf.edu.

Application Deadlines

Planetary Sciences	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Dec 15	Jul 1	Dec 1	
International Applicants	Dec 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Daniel Britt

Pegasus Professor
dbritt@ucf.edu
Telephone: 407-823-2600
PSB 442

Esperanza Soto Arcino

Graduate Admissions Coordinator
soto@ucf.edu
Telephone: 407-823-5146
PSB 432

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
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Political Science MA

College: Sciences	Degree: MA
Department: School of Politics, Security and International Affairs	Option: Thesis, Nonthesis
Program Websites: https://sciences.ucf.edu/politics/	
Graduate Program Handbook	

Program Description

The Master of Arts in Political Science program prepares students to enter positions in government and the private sector, advance their professional careers in a variety of fields including consultation, defense, environment, and philanthropy, and pursue more advanced graduate degrees such as a PhD in which the analytical ability to comprehend, influence, and respond to policies and initiatives is critical. The program also provides a well-rounded substantive curriculum for secondary school teachers seeking higher degrees and for teachers in community colleges. As such, the Master of Arts in Political Science program is designed to accommodate a range of professional and intellectual needs.

Curriculum

A Program of Study in the Master of Arts in Political Science consists of the following coursework. Students have the option of completing a thesis with 27 hours of coursework or choosing the nonthesis option with 33 hours of coursework.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Required Core Courses—12 Credit Hours

- POS 6736 - Conduct of Political Inquiry **3 Credit Hours**
- POS 6746 - Quantitative Methods in Political Research **3 Credit Hours**

Choose two of the following courses.

- CPO 6091 - Seminar in Comparative Politics **3 Credit Hours**
- INR 6007 - Seminar in International Politics **3 Credit Hours**
- POS 6045 - Seminar in American National Politics **3 Credit Hours**
- POT 6007 - Seminar in Political Theory **3 Credit Hours**

Elective Courses—15 Credit Hours

Students will complete 15 hours of coursework at the 5000 or 6000 level. All 5000 or 6000 level courses offered by the SPSIA can be used to meet this requirement, with the exception of those courses used to complete core course requirements. Up to 6 credit hours of 5000 and 6000 level courses coursework from other departments/schools may also be used as electives with the prior approval of the MA program coordinator. Students may use up to 6 hours of independent study and up to 6 hours of internship credit for the elective credits requirement, but no more than 6 hours total can be from coursework outside the SPSIA, independent study, or internship credit.

- CPO 6038 - Political Development **3 Credit Hours**
- CPO 6058 - Revolution and Political Violence **3 Credit Hours**
- CPO 6206 - Comparative Politics of Africa **3 Credit Hours**
- CPO 6307 - Issues in Latin American Politics **3 Credit Hours**
- CPO 6407 - Comparative Politics of the Middle East **3 Credit Hours**
- CPO 6729 - Global Security in the Age of Migration **3 Credit Hours**
- INR 6039 - International Political Economy **3 Credit Hours**
- INR 6062 - Peace Studies **3 Credit Hours**
- INR 6065 - Seminar on War **3 Credit Hours**
- INR 6067 - Human Rights and Security **3 Credit Hours**
- INR 6068 - Politics of Civil Wars **3 Credit Hours**
- INR 6108 - Seminar in American Foreign Policy **3 Credit Hours**
- INR 6136 - Seminar in American Security Policy **3 Credit Hours**
- INR 6137 - Terrorism and Politics **3 Credit Hours**
- INR 6254 - International Relations of Africa **3 Credit Hours**
- INR 6275 - International Politics of the Middle East **3 Credit Hours**
- INR 6339 - Strategic Warning Analysis **3 Credit Hours**
- INR 6346 - Politics of International Terrorism **3 Credit Hours**
- INR 6352 - Global Environmental Politics **3 Credit Hours**
- INR 6356 - Environmental Security **3 Credit Hours**
- INR 6365 - Seminar on Intelligence **3 Credit Hours**
- INR 6366 - The Intelligence Community **3 Credit Hours**
- INR 6726 - Political Behavior in International Conflict **3 Credit Hours**
- POS 6207 - Political Behavior **3 Credit Hours**
- POS 6415 - The American Presidency **3 Credit Hours**
- POS 6427 - Congress and the Legislative Process **3 Credit Hours**
- POS 6686 - National Security Law **3 Credit Hours**
- POS 6729 - Political Network Analysis **3 Credit Hours**
- POS 6743 - Geographic Tools for Political Science Research **3 Credit Hours**
- POS 6747 - Advanced Topics in Quantitative Political Analysis **3 Credit Hours**
- POS 6757 - Survey Design for Political Science Research **3 Credit Hours**
- PUP 6208 - Environmental Politics **3 Credit Hours**
- PUP 6247 - Contemporary Issues in Environmental Politics **3 Credit Hours**
- PUP 6324 - Women and Public Policy **3 Credit Hours**
- PUP 6607 - Politics of Health **3 Credit Hours**

Thesis Option—6 Credit Hours

All MA students are automatically placed in the nonthesis option. Students wishing to write a thesis must get approval to do so.

- **POS 6971 Thesis 6 Credit Hours**

After completion of the required coursework and the passing of comprehensive exams, the student must have a thesis committee approved by the School of Politics, Security, and International Affairs (SPSIA) and Graduate Studies. The thesis committee consists of a chair and two other faculty members from the SPSIA who are members of the Graduate Faculty. On the approval of the thesis chair and Graduate Program Director, one of the committee members (but not the chair) may come from outside the SPSIA.

When a thesis topic has been selected, students, in conjunction with their thesis committee, will develop a thesis proposal. Copies of the proposal will be sent to members of their thesis committee and a proposal hearing scheduled in the first semester the student enrolls for thesis hours. All students must pass a proposal hearing as well as a final oral defense of their thesis.

Once enrolled in thesis hours, students should maintain continuous enrollment (3 credit hours) each semester up to and including the semester in which they defend the thesis.

In addition to SPSIA guidelines for the thesis, students should also become familiar with the UCF's requirements and deadlines for organizing and submitting the thesis.

Nonthesis Option—6 Credit Hours

The student must complete 6 additional credit hours of course electives in their respective areas. Thesis hours, if already taken, will not count for course credit for the 6 additional credit hours of coursework.

- **Electives 6 Credit Hours**
- Complete an independent research project/paper

During the final semester of coursework, the student must have a nonthesis committee approved by the SPSIA and Graduate Studies. The nonthesis committee consists of a chair and one other faculty member from the SPSIA. On the approval of the thesis chair and Graduate Program Director, the committee member (but not the chair) may come from outside the SPSIA.

The student must complete an approved article-length independent research paper. The project/paper must have a component of original, independent research; it cannot be a literature review or research design only. The project/paper can be a product of a graduate research seminar and/or independent study paper. The student will present their research publicly at a SPSIA or UCF research colloquium or another public academic forum such as an academic conference. The project/paper must be evaluated by the nonthesis committee and receive formal confirmation of completion from the committee, and the MA program coordinator.

If the paper is to be presented at a SPSIA research colloquium, the student is responsible for scheduling the presentation in consultation with the nonthesis committee.

Comprehensive Examination

All candidates for the MA degree must take a comprehensive written examination. The examination will be administered after satisfactory completion of the required course work and must be taken prior to enrollment in thesis hours.

The exam is designed to demonstrate proficiency in research methods and will consist of two parts. Part I will involve the critique of an article from a political science journal. The article will be assigned by the SPSIA's Graduate Methods Committee in consultation with the student and where possible will be based on the student's substantive areas of interest. Part II will involve questions based on data analysis using either SPSS or STATA.

The examination will be offered once semester. Dates will be set by the SPSIA. Students must register to take the exam **at least six weeks prior** to its scheduled date and take the exam within six months after they complete POS 6736 and POS 6746.

Students not passing any part of the examination may take this part a second time within nine months on the dates that comprehensive exams are regularly scheduled. However, no student will be allowed to take the examination more than twice.

Equipment Fee

Full-time students in the Political Science MA program pay a \$39 equipment fee each semester that they are enrolled. Part-time students pay \$19.50 per semester.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Three letters of reference that evaluate the applicant's academic performance and their suitability and potential for undertaking MA level study, at least two of which were written by faculty members at the higher education institution(s) the student attended.
- A personal statement of at least 500 words identifying areas of research interest in political science, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and future career goals.
- CV/Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Student wishing to enroll in graduate courses in political science must meet the SPSIA's requirements for graduate status (either regular or conditional graduate status) or must hold regular graduate status in another program at UCF. Students who have not been accepted into a degree-seeking program at UCF may not enroll in political science graduate courses.

Meeting minimum UCF or SPSIA admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, and the applicant's potential for completing the degree.

Application Deadlines

Political Science MA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Güneş Murat Tezcür PhD

Jalal Talabani Chair and Professor and MA Program Coordinator
tezcür@ucf.edu
Telephone: 407-823-2040
HPH 302F

Kyrie Ottaviani

Graduate Admissions Coordinator
graduatepolisci@ucf.edu

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
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Public Administration MPA ►

College: Community Innovation and Education	Degree: MPA
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/	
Graduate Program Handbook	

Program Description

The Master of Public Administration (MPA) program is accredited by the Network of Schools of Public Policy, Affairs and Administration (NASPAA) and nationally ranked by U.S. News and World Report.

The program provides exciting opportunities for students to prepare for employment or advance their careers in public and nonprofit organizations.

Please note: Public Administration (MPA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of

enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Tracks

- Public Administration MPA, Criminal Justice MS Dual Degree Track ►
- Public Administration MPA, Nonprofit Management MNM Dual Degree Track ►

Curriculum

The Master of Public Administration (MPA) program consists of 42 credit hours. Each student completes a core of nine courses (27 credit hours), an advanced curriculum of four electives (12 credit hours), and a capstone experience equivalent to one course (3 credit hours).

The Master of Public Administration is offered both in a campus-based classroom setting (face-to-face) and completely online. The curriculum requirements below apply to both the campus-based and online options. Students must choose either the online option or the face-to-face option when they apply for admissions. Students in the campus-based program may enroll in a combination of online, mixed-mode and face-to-face classes. However, students in the online option may only enroll in online courses due to the difference in fees. For information on completing MPA exclusively online with a reduction in campus-based fees, please visit <http://ucf.edu/online>.

The face-to-face courses are offered in the evenings during the week at UCF Downtown campus. The MPA program incorporates group projects into every course in both the online and campus-based options. Group projects are intended to develop leadership abilities while also providing an opportunity to demonstrate how students work as part of a team. Group projects promote important intellectual and social skills and help to prepare students for work in a world in which teamwork and collaboration are increasingly the norms.

Courses and credit hours used for undergraduate degrees cannot be applied toward the MPA degree, except for Senior Scholar students. Students approved as undergraduates at UCF to participate in the Senior Scholar program may, with the permission of the MPA program director, use up to 9 credit hours of graduate coursework taken as part of the bachelor's degree toward the MPA degree. However, no undergraduate-level courses will be accepted in the MPA program.

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 30 Credit Hours

Core: 27 Credit Hours

- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**
- PAD 6700 - Research Methods in Public Administration **3 Credit Hours**
- PAD 6701 - Analytical Techniques for Public Administration **3 Credit Hours**
Prerequisite: PAD 6700
- PAD 6227 - Public Budgeting **3 Credit Hours**
Prerequisite PAD 6700
- PAD 6207 - Public Financial Management **3 Credit Hours**

Prerequisite PAD 6700 & PAD 6227

- PAD 6417 - Human Resource Management **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

Capstone: 3 Credit Hours

Students will engage in a capstone experience that builds upon the knowledge and skills gained from completing the core courses in the MPA program. Students will complete this requirement through enrollment in PAD 6062 - Advanced Concepts and Applications in Public Administration. PAD 6062 is offered in fall and spring semesters only and may be taken following the completion of all core courses.

- PAD 6062 - Advanced Concepts and Applications in Public Administration **3 Credit Hours**

Electives: 12 Credit Hours

Elective courses offered within the School of Public Administration provide an emphasis on state and local governments; however, other emphases may be developed in consultation with the Program Director and Academic Advisor. With prior approval from the MPA Program Director, up to 6 credit hours of elective course work may be taken from outside the school. Students must show that elective courses taken outside of the school directly support a career in public administration. The MPA program of study does not accept undergraduate-level courses.

Students interested in a professional management career may take elective courses from the School of Public Administration's graduate certificate programs in Public Budgeting and Finance, Public Policy Analysis, Nonprofit Management, Fundraising, Urban and Regional Planning, Research Administration, and Emergency Management and Homeland Security to enhance their managerial skills. Any course offered by the school of Public Administration, a PAD prefix course, may be used as an elective for this program. Students interested in a research career can work with the Program Director and Academic Advisor to take advanced research courses to strengthen their analytical skills.

Students without practical administrative experience in the public sector are strongly advised to complete an internship (3 credit hours) as part of their electives.

The courses listed below and other PAD courses in the catalog may be used as program electives.

- PAD 6826 - Urban Policy and Regional Governance **3 Credit Hours**
- PAD 5186 - Policy Advocacy for Social Justice **3 Credit Hours**
- PAD 5887 - Energy Policy **3 Credit Hours**
- PAD 5930 - Global Cities **3 Credit Hours**
- PAD 6439 - Leadership in Public Service **3 Credit Hours**
- PAD 6836 - Comparative Global Public Administration **3 Credit Hours**
- PAD 6934 - Special Issues in Public Administration **3 Credit Hours**
PAD 6934 deals with a different topic, a prevailing public administration issue, each time it is offered. Please check the title when registering.
- PAD 6946 - Internship **3 Credit Hours**
- PAD 6825 - Cross-Sectoral Governance **3 Credit Hours**
- PAD 6705 - Public Sector Communications **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone Experience (PAD 6062).

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue and service learning. Tangible projects such as scholarly research, papers, internships and the capstone experience also contribute to the self-development of MPA students. The research paper and Learning and Professional Development Portfolio in the Capstone Experience focus on reviewing and analyzing contemporary issues in the context of real-world applications.

Application Requirements

For information on general UCF graduate admission requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The MPA program is offered as either a campus-based classroom (face-to-face) program or a completely online program. Applicants must select one option at the time of admission. Admission requirements and the admission process is the same regardless of which option the applicant chooses.

Admission is open to those with a bachelor's degree from a regionally accredited institution with a minimum overall undergraduate GPA of 3.0 or better (on a 4.0 scale) or in the last 60 hours. Students must submit all required materials by the established deadline. Materials received after the established deadline may not be considered. Admission to this graduate program is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Three letters of recommendation specifically for the MPA program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
 - Personal background and career aspirations in public service.
 - Reason for pursuing graduate study in public administration, including future career goals and plans.
 - Specific areas of public administration that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All international students must meet the university's minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

A limited number of students who do not meet the GPA requirements may be admitted on a provisional basis. These students must demonstrate Public Administration experience and provide a clear statement of educational goals.

Application Deadlines

Public Administration MPA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	July 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Abdul-Akeem Sadiq PhD
Associate Professor
Director, Public Administration Programs
Abdul-Akeem.Sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun MPA, MNM
Graduate Adviser, MPA, MPP Programs
Edlira.Dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Public Administration MPA, Criminal Justice MS Dual Degree Track ►

College: Community Innovation and Education	Degree: MPA
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/	

Track Description

The Public Administration MPA, Criminal Justice MS Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Public Administration and Master of Science in Criminal Justice, concurrently.

Students successfully completing this MPA/MSJ dual degree program will have the skills and analytical techniques for successful careers in both public administration and criminal justice. After successful completion of the MPA/MSJ dual degree program, students will receive two diplomas, one for Public Administration MPA and the other for Criminal Justice MS.

Please note: Public Administration (MPA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The dual degree track (Master of Public Administration / Master of Criminal Justice) consists of 51 credit hours. Each student completes a core of 11 courses (33 credit hours), two research methods and statistics courses (6 credit hours), two electives (6 credit hours), and a capstone experience of two courses (6 credit hours).

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 45 Credit Hours

Core: 33 Credit Hours

- CCJ 5015 - The Nature of Crime **3 Credit Hours**
- CCJ 5456 - The Administration of Justice **3 Credit Hours**
- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**
- CCJ 6118 - Criminal Justice Organizations **3 Credit Hours**
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**
- PAD 6207 - Public Financial Management **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

- PAD 6417 - Human Resource Management **3 Credit Hours**

Research Methods/Statistics: 6 Credit Hours

Students must select one PAD course and one CCJ course:

- PAD 6700 - Research Methods in Public Administration **3 Credit Hours** or
- CCJ 6704 - Research Methods in Criminal Justice **3 Credit Hours**
- PAD 6701 - Analytical Techniques for Public Administration **3 Credit Hours** or
- CCJ 6706 - Data Analysis in Criminal Justice I **3 Credit Hours**

Capstone: 6 Credit Hours

MPA Capstone course, PAD 6062, is offered in fall and spring semesters only.

- PAD 6062 - Advanced Concepts and Applications in Public Administration **3 Credit Hours**
(MPA Capstone is offered fall and spring semesters only and may be completed after all MPA core courses.)
- CJE 6718 - Proseminar in Criminal Justice **3 Credit Hours**

Electives: 6 Credit Hours

Select **two** of the following courses:

- CJC 5020 - Foundations of Corrections **3 Credit Hours**
- CJE 5021 - Foundations of Law Enforcement **3 Credit Hours**
- CJJ 6020 - The Juvenile Justice System **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**
- CJL 6520 - American Criminal Courts **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B" or higher in every CCJ course and a grade of "B- (80%)" or higher in every PAD course in the required courses, including the Capstone courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of students. The capstone courses, PAD 6062 and CJE 6718, provide the independent learning experience.

Application Requirements

For information on general UCF graduate admission requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Three letters of recommendation specifically for the MPA/Criminal Justice MS program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
 - Personal background and career aspirations in public service.
 - Reason for pursuing graduate study in public administration, including future career goals and plans.
 - Specific areas of public administration that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All international students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

Admission to this degree is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Application Deadlines

Criminal Justice MS Dual Degree	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Abdul-Akeem Sadiq, PhD

Associate Professor
Director, Public Administration Programs
Abdul-akeem.sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun, MPA, MNM

Graduate Adviser, MPA, MPP Programs
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Public Administration MPA, Nonprofit Management MNM Dual Degree Track ►

College: Community Innovation and Education	Degree: MPA
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/	

Track Description

The Public Administration MPA – Nonprofit Management MNM Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Public Administration and the Master of Nonprofit Management, concurrently. The program emphasizes nonprofit management and public administration research, theory, policy and organizational administration to prepare future public service organizational leaders in public, nonprofit, social service, and private organizations. After successful completion of the Dual Degree program, students will receive two diplomas - one for the Public Administration MPA and one for the Nonprofit Management MNM degree.

Students seeking admission to the MNM/MPA Dual Degree program should apply directly to the Dual Degree track of either the Public Administration MPA program or the Nonprofit Management MNM program. Only one application will be required. If admitted, a student will be active in the Dual Degree tracks of both the Public Administration MPA and the Nonprofit Management MNM programs.

Students previously admitted to the Public Administration MPA or the Nonprofit Management MNM program should consult with their adviser prior to completing 18 credit hours if interested in the MNM/MPA Dual Degree program.

Please note: Public Administration (MPA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The dual degree track (Master of Public Administration / Master of Nonprofit Management) consists of 54 credit hours. Each student completes all the core courses for each program including 42 credit hours of core courses, 6 credit hours of research methods and statistics core courses and 6 credit hours of capstone courses.

Courses and credit hours used for undergraduate degrees cannot be counted toward the MPA/MNM track, except for Senior Scholar students who, with the permission of the MPA and MNM program directors, may use up to 9 credit hours of graduate coursework that was used in their undergraduate degree toward credit in the dual degree program.

Total Credit Hours Required: 54 Credit Hours Minimum beyond the Bachelor's Degree

Required Core Courses: 42 Credit Hours

- PAD 5145 - Volunteerism in Nonprofit Management **3 Credit Hours**
- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6207 - Public Financial Management **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6237 - Ethics and Governance in Nonprofit Management **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**

Research Methods/Statistics Core Requirements: 6 Credit Hours

- PAD 6700 - Research Methods in Public Administration **3 Credit Hours**
- PAD 6701 - Analytical Techniques for Public Administration **3 Credit Hours**

Capstone Core Requirements: 6 Credit Hours

Students will engage in a capstone experience for both the MPA and the MNM programs that builds upon the knowledge and skills gained from completing the core courses. Students will complete this requirement through enrollment in PAD 6149 - Nonprofit Administration and PAD 6062 - Advanced Concepts and Applications in Public Administration. Capstone courses may only be taken following the completion of all core courses; they may not be combined with core courses in the same semester. Capstone courses are offered fall and spring semesters only.

- PAD 6149 - Nonprofit Administration **3 Credit Hours**
- PAD 6062 - Advanced Concepts and Applications in Public Administration **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of students. The research paper and Learning and Professional Development portfolio in the Capstone Experience focus on reviewing and analyzing contemporary issues in order to help students acquire knowledge and skills pertaining to research-based best practices. The capstone courses, PAD 6062 and PAD 6149, provide the independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Three letters of recommendation. Letters of recommendation must specifically address the applicant's ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional resume should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - Reason for pursuing graduate study in Public Administration and Nonprofit Management, including future goals and plans.
 - Specific areas of Nonprofit Management and Public Administration of interest.
 - Relevant experience, paid or as a volunteer
 - What makes the applicant a special candidate for admission to this limited access program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

Admission to this dual degree track is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Material received after the established deadline may not be considered.

Students are expected to be computer literate upon entry to the program or are expected to obtain these skills immediately upon admission to the program.

Application Deadlines

Nonprofit Management MNM Dual Degree	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jun 1	Nov 1	
International Applicants	Jan 15	Jan 15	Jul 1	
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Abdul-Akeem Sadiq, PhD

Associate Professor
 Director, Public Administration Programs
 Abdul-akeem.sadiq@ucf.edu
 Telephone: 407-823-3925

Edlira Dursun, MPA, MNM

Graduate Adviser, MPA, MPP Programs
 Edlira.dursun@ucf.edu
 Telephone: 407-823-1139
 DPAC 446B

Graduate Admissions

Christina Dabrowski

gradadmissions@ucf.edu
 Telephone: 407-823-2766

Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Graduate Fellowships

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Graduate Financial Aid

UCF Student Financial Assistance

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Public Policy MPP

College: Community Innovation and Education	Degree: MPP
Department: School of Public Administration	Option: Nonthesis
Program Website: https://ccie.ucf.edu/public-administration/public-policy/	

Program Description

The Master of Public Policy (MPP) is primarily a face-to-face, campus-based program, designed to prepare students for professional careers as policy analysts, policy evaluators, and leaders in the public sector. Students will learn and apply evidence-based public policy formulation, implementation, and evaluation framework in a range of policy domains including urban policy, environmental policy, educational policy, health policy, transportation policy, economic

development policy, immigration policy, disaster policy, homeland security policy, science and technology policy, criminal justice policy, and international/global policy. The MPP will serve as a platform to adequately prepare students for doctoral studies in public administration.

Students will enhance and practice their knowledge and skills through the development of various core competencies including public policy and governance, law and economic principles, research methods and tools, program analysis and evaluation, organization management and network analysis, public leadership and decision-making process and specific courses dedicated to unique topics within public policy.

Curriculum

The Master of Public Policy (MPP) consists of 36 credit hours. Each student completes a core of six courses (18 credit hours), one Capstone Experience course (3 credit hours) and an advanced curriculum of electives (15 credit hours).

The face-to-face courses are offered in the evenings during the week at the UCF Downtown campus. The MPP program incorporates group projects in courses intended to develop leadership abilities while also providing an opportunity to demonstrate how students work as part of a team in most courses. These projects promote important intellectual and social skills and help to prepare students for work in a world in which teamwork and collaboration are increasingly the norms.

Courses and credit hours used for undergraduate degrees cannot also be applied toward the MPP degree, except for Senior Scholar students. Students approved as undergraduates at UCF to participate in the Senior Scholar program may, with the permission of the MPP Program Director, use up to 9 credit hours of graduate coursework taken as part of the bachelor's degree toward the MPP degree. However, no undergraduate-level courses will be accepted in the MPP program.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Core Courses: 18 Credit Hours

- PAD 6700 - Research Methods in Public Administration **3 Credit Hours**
- PAD 6701 - Analytical Techniques for Public Administration **3 Credit Hours**
Prerequisite PAD 6700
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6307 - Public Policy Analysis and Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6616 - Economic Principles for Public Policy and Management **3 Credit Hours**

Capstone: 3 Credit Hours

Students will engage in a capstone experience that builds upon the knowledge and skills gained from completing the core courses in the MPP program. Students will complete this requirement through enrollment in PAD 6848 - Policy Analysis Capstone. The Capstone Experience course is offered in fall and spring semesters only and may be taken following the completion of all core courses. It may not be combined with a core course in the same semester.

- PAD 6848 - Policy Analysis Capstone **3 Credit Hours**

Electives: 15 Credit Hours

Select three courses from the following (3 Credit Hours each).

- PAD 5337 - Urban Design **3 Credit Hours**
- PAD 6234 - Public Capital and Debt **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6036 - Change Management in Public Organizations **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6238 - Revenue Policy and Administration **3 Credit Hours**
- PAD 6260 - Fundamentals of Public Sector Accounting **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**
- PAD 6439 - Leadership in Public Service **3 Credit Hours**

Policy Specialization Electives: 6 Credit Hours

Select from the following courses or courses otherwise approved by the Program Director (3 Credit Hours each).

Students take two policy specialization courses to focus on a specific policy domain, including but not limited to Urban Policy, Economic Development Policy, Environmental and Energy Policy, Transportation Policy, Education Policy, Health Policy, Science and Technology Policy, Disaster Policy, and Criminal Justice Policy.

- PAD 5337 - Urban Design **3 Credit Hours**
- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**
- CCJ 6485 - Issues in Justice Policy **3 Credit Hours**
- PAD 6339 - Housing Development and Planning **3 Credit Hours**
- PAD 6353 - Environmental Planning and Policy **3 Credit Hours**
- PAD 6387 - Transportation Policy **3 Credit Hours**
- PAD 6398 - Hazard Analysis and Disaster Planning **3 Credit Hours**
- PAD 6399 - Foundations of Emergency Management and Homeland Security **3 Credit Hours**
- PHC 6146 - Health Planning and Policy **3 Credit Hours**
- PAD 6357 - Urban Resilience **3 Credit Hours**
- PAD 5930 - Global Cities **3 Credit Hours**
- PAD 6036 - Change Management in Public Organizations **3 Credit Hours**
- PAD 6826 - Urban Policy and Regional Governance **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone Experience course.

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

The School of Public Administration incorporates service-learning into some courses. Service-learning is a teaching method that provides a means for every student to enhance his or her academic program with experiential learning opportunities. Service-learning provides an opportunity for students to work with community partners by collecting and compiling data and producing quality products that will be beneficial to both students and organizations.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue, and service-learning. Tangible projects, such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of MPP students. The research paper and Learning and Professional Development Portfolio in the Capstone Experience focus on creating, reviewing and analyzing contemporary issues with Public Policy and its applications.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. All requested materials must be submitted by the established deadline. The MPP program is offered as a campus-based classroom (face-to-face) program. Admission is open to those with a bachelor's degree from a regionally accredited institution with a minimum overall undergraduate GPA of 3.0 or better (on a 4.0 scale) or in the last 60 hours. Applicants must apply online. Students must submit all required materials by the established deadline. Materials received after the established deadline may not be considered. Admission to this graduate program is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Graduate Record Examination (GRE) score from examination taken within the last 5 years.
- Three letters of recommendation specifically for the MPP program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
 - Personal background and career aspirations in public policy or public service.
 - Reason for pursuing graduate study in public policy, including future career goals and plans.
 - Specific areas of public policy that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All international students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

A limited number of students who do not meet the GPA requirements may be admitted on a provisional basis. These students must demonstrate public policy or public administration experience and provide a clear goal statement.

Application Deadlines

Public Policy MPP	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		

International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Abdul-Akeem Sadiq PhD

Associate Professor

Director Public Administration and Public Policy Programs

Abdul-Akeem.Sadiq@ucf.edu

Edlira Dursun MPA, MNM

Graduate Adviser, MPA, MPP Programs

Edlira.Dursun@ucf.edu

Telephone: 407-823-2604

DPAC 446B

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Reading Education MEd

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/teachered/k-12/reading-education/	
Graduate Program Handbook	

Program Description

The Master of Education in Reading Education program prepares teachers for certification as reading specialists (e.g., reading coach, reading expert, reading resource teacher, reading/language arts supervisor) in grades K-12 in public schools and private reading clinics.

The Master of Education in Reading Education is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students

enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The College of Education and Human Performance offers a Master of Education degree in Reading Education. The program prepares teachers for certification as reading specialists (e.g., reading coach, reading expert, reading resource teacher, reading/language arts supervisor) in grades K-12 in public schools and private reading clinics. Assessment (screening, diagnosis, monitoring), instruction and intervention, reading in the content fields, management of reading programs, reading trends and research, and dimensions of the language arts other than reading are included among the curriculum. There is considerable emphasis on practice with diverse readers from early childhood to adult levels. Professionals currently certified as Florida teachers are eligible to pursue a degree in the program. The Reading Education MEd program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Reading-Ed-MEd.pdf>.

Curriculum

The Master of Education in Reading Education program requires a minimum of 30 credit hours beyond the bachelor's degree, including 9 credit hours of core courses, 15 credit hours of specialization courses, and 6 credit hours of a practicum. Students who do not currently hold a Florida ESOL Endorsement must select the specified Teaching English to Speakers of Other Languages course, TSL 5085, as a corequisite. All students must pass a final comprehensive exam, complete a portfolio according to program guidelines, and pass the Reading K-12 Subject Area Exam of the Florida Teacher Certification Examination.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

The following courses meet state certification requirements or as support for the degree program. Choose one of the following:

- LAE 5415 - Children's Literature in Elementary Education **3 Credit Hours**
 - LAE 5465 - Literature for Adolescents **3 Credit Hours**
 - LAE 5319 - Methods of Elementary School Language Arts **3 Credit Hours**
 - LAE 5346 - Methods of Teaching English Language Arts **3 Credit Hours**
- LAE 5465 Literature for Adolescents
LAE 5346 Methods of Teaching English Language Arts
LAE 5415 Children's Literature in Elementary Education
LAE 5319 Methods of Elementary School Language Arts

Corequisite

Students who are not ESOL Endorsed must complete the following course:

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**

Required Courses: 24 Credit Hours

Core: 9 Credit Hours

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**

- RED 5147 - Developmental Reading **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours**

Specialization: 15 Credit Hours

- RED 6116 - Advanced Study in Foundations of Reading **3 Credit Hours**
- RED 6336 - Teaching Content Area and Disciplinary Literacy **3 Credit Hours**
- RED 6337 - Reading in the Secondary School **3 Credit Hours**
- RED 6746 - Literacy Leadership and Coaching **3 Credit Hours**
- RED 6845 - Advanced Evaluation and Instruction in Reading **3 Credit Hours**

Practicum: 6 Credit Hours

The MEd program requires a practicum experience. Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

- RED 6846 - Reading Practicum **6 Credit Hours**

Additional Graduation Requirements

- All students must complete a comprehensive examination.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass Reading K-12 Subject Area Exam of the Florida Teacher Certification Examination.

Independent Learning

The MEd program also requires a practicum experience. Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Possess or be fully eligible for a professional teaching certificate in one or more other teacher certification specializations in Florida.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Reading Education MEd	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Michelle Kelley EdD
 Professor
 michelle.kelley@ucf.edu
 Education Complex 315N

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address
 UCF College of Graduate Studies
 Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Real Estate MSRE

College: Business Administration	Degree: MSRE
Department: Dr. P. Phillips School of Real Estate	Option: Nonthesis
Program Websites: http://www.business.ucf.edu/graduate-programs	
Graduate Program Handbook	

Program Description

The Professional Master of Science in Real Estate (PMRE) program was designed by the Dr. P. Phillips School of Real Estate as a flagship graduate program that prepares students to pursue careers in commercial real estate brokerage and appraisal, real estate development, mortgage brokerage, institutional real estate investment management, capital markets, and asset management. Students earn Argus Software Certification and are eligible for the fast track to CCIM designation upon graduation. Graduates are also well prepared to sit for the Florida real estate brokerage and appraisal licenses.

- 20-month program offered in Downtown Orlando
- Limited class size, cohort program

- Classes meet 2 evenings per week

Students advance through all courses together as a cohort using their professional experience as an important addition to the learning process. The program's 30-credit-hour curriculum combines a professional business core with courses in finance, accounting and advanced coursework in real state.

This program is a professional program with a market rate tuition and is considered a part-time program. The tuition is the same for Florida residents and non-residents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

Curriculum

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—30 Credit Hours

Finance Core—12 Credit Hours

- ACG 6425 - Managerial Accounting Analysis **3 Credit Hours**
- FIN 6406 - Strategic Financial Management **3 Credit Hours**
- PAD 5336 - Introduction to Urban Planning **3 Credit Hours**
- REE 6380 - Financial Analysis of Real Estate Firms **3 Credit Hours**

Real Estate Core—18 Credit Hours

- REE 6006 - Real Estate Markets and Institutions **3 Credit Hours**
- REE 6147 - Real Estate Market Analysis and Appraisal **3 Credit Hours**
- REE 6209 - Real Estate Finance and Investment Analysis **3 Credit Hours**
- REE 6418 - Real Estate Contracts and Negotiations **3 Credit Hours**
- REE 6455 - Real Estate Law **3 Credit Hours**
- REE 6737 - Real Estate Development **3 Credit Hours**

Capstone Course

The UCF PMRE capstone course, REE 6737 - Real Estate Development, is required by all students. Students will create a comprehensive development project that covers the real estate development process, regulatory considerations, financial and market feasibility, management and control, and environmental aspects of real estate development.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.

- Current Résumé.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
 - Describe what motivated you either professionally or personally to pursue a master's degree.
 - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about our program.
 - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Recommendations. Provide three email addresses of recommenders in your application from professional sources. **One recommendation must be from a current or previous supervisor.**
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.

Review Process. Your application will be reviewed once all required documents are received. Admission decisions are made after the review process is complete.

The GMAT is not required for Executive or Professional Degree programs.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Application Deadlines

Real Estate MSRE	Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1		
The MS in Real Estate program is taught at the UCF Downtown Campus in downtown Orlando and the next available term for this program is Fall 2022.				
International Applicants				
This program is part-time only and therefore cannot accept international applicants.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Robin Hofler

robin.hofler@ucf.edu
Telephone: 407-235-3913

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0217
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Research Administration MRA ►

College: Community Innovation and Education	Degree: MRA
Department: School of Public Administration	Option: Nonthesis

Program Website: https://ccie.ucf.edu/public-administration/research-administration/
Graduate Program Handbook

Program Description

The Master in Research Administration provides the professional skills and management theories and techniques to prepare individuals to practice as highly trained and ethical research administrators. The completely online program builds a solid foundation in research administration and leadership that enables graduates to work in a variety of research organizations such as universities, hospitals and medical centers, industry, and research institutes and centers.

This program is a professional program and is considered a part-time program. For more information, please visit www.ce.ucf.edu/Program-Search/1381/Master-Of-Research-Administration/.

Graduates of the program will be able to: integrate the history and values of the profession into a professional identity; apply organizational development theories in leadership and human resource management; demonstrate knowledge of and compliance with the legal, ethical and regulatory framework that governs research; apply sound financial management concepts in proposal development and funded sponsored projects; negotiate and monitor sponsored contracts and subcontracts; write and evaluate grant proposals; apply the law in regards to intellectual property, technology transfer and commercialization; identify new areas for collaborative grant opportunities; and respond to financial and non-financial audits of research grants and contracts.

Please note: Master of Research Administration (MRA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Master in Research Administration program requires a minimum of 36 credit hours beyond the bachelor's degree. The program is offered completely online in a lock-step and cohort-based model. Students take two courses each semester and complete the degree program in two years (six semesters). In the final course students complete an evaluation project as a culminating activity that engages them in the application of theory, research policy, regulatory frameworks, ethics, and professional standards and practices within their area of focus.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 36 Credit Hours

Research Administration Concentration Core Courses: 27 Credit Hours

- PAD 6742 - Introduction to Research Administration **3 Credit Hours**
- PAD 6748 - Governance and Regulatory Issues for Sponsored Programs **3 Credit Hours**

- PAD 6743 - Leadership and Organization Models in Research Administration **3 Credit Hours**
- PAD 6744 - Financial Management in Research Administration **3 Credit Hours**
- PAD 6745 - Contracting for Sponsored Programs **3 Credit Hours**
- PAD 6746 - Intellectual Property, Technology Transfer and Commercialization **3 Credit Hours**
- PAD 6747 - Audits in Research Administration **3 Credit Hours**
- PAD 6741 - Research Integrity for Research Administrators **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**

Additional Required Courses: 9 Credit Hours

- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

Additional Program Requirements

- Students must achieve a grade of "B-" (80%) or higher in all Research Administration concentration courses (PAD 67XX level and PAD 6327).
- Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Cost Per Credit Hour

For the Master of Research Administration program, the cost per credit hour is \$655.62.*

*Fee is subject to change

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue and service learning. Tangible projects such as strategic plans, grant proposals, commercialization plans and case studies along with research projects, scholarly papers, internships, and presentations at professional conferences also contribute to the self development of our students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale) from each college/university attended.
- Three letters of recommendation specifically for the MRA program. Letters of recommendation should be from professors, researchers, or professional research administrators who can attest to the applicant's ability to succeed in graduate coursework and his or her work ethic.
- Résumé: The most current, professional resume should be provided.

- Statement of goals: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be single-spaced, one-inch margins, and no longer than two pages (500-800 words). Applicant must address each item listed below when completing the goal statement:
 - Reason for pursuing graduate study in research administration, including future goals and plans.
 - Topics or areas of special interest in research administration.
 - Expectations of the graduate program.
 - What the applicant will bring to the program that would make him or her a special candidate for admission to this limited access program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL requirements regardless of the language in which the undergraduate program was completed.

This program does not accept State Employee Waivers.

Admission to this program is limited. The Master in Research Administration is a highly competitive program that admits one cohort annually in the fall semester and one cohort in the spring semester. Applicants are encouraged to apply early to this program because once the cohort reaches capacity for an entering class, admissions will be closed for that academic year.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Students are expected to be computer literate upon entry to the program. This program is completely online, so computer skills and computer internet access are necessary to take the courses.

Application Deadlines

Research Administration MRA	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1	Dec 1	Apr 1
International Applicants		Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Contact Info

Graduate Program

Angela White-Jones PhD

Program Director

angela.White-Jones@ucf.edu

Telephone: 407-823-2604

Nasrin Lakhani, MNM
Nasrin@ucf.edu
Telephone: 407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Secondary Education MEd

College: Community Innovation and Education	Degree: MEd
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Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Program Description

The Master of Education (MEd) program in Secondary Education is designed for professionally certified and experienced educators who want to improve their knowledge and skills in teaching students and colleagues in their content area. Students engage in action research within the walls of their classroom.

Coursework includes secondary education courses as well as content-specific courses in each track.

This degree does not prepare students for initial, administrative, or supervisory certification.

Program Tracks

- Secondary Education MEd, English Language Arts Education Track
- Secondary Education MEd, Mathematics Education Track
- Secondary Education MEd, Science Education Track
- Secondary Education MEd, Social Science Education Track
- Secondary Education MEd, World Languages Education Track

Curriculum

The Master of Education in Secondary Education program requires a minimum of 33 credit hours beyond the bachelor's degree. Students from all tracks must complete the required 21 credit hours of core courses and culminating experiences. All students complete a capstone research project or thesis, which are course-based action research studies (i.e., application and analysis of the effectiveness of research-based best practices in the classroom). Additional course requirements vary by the student's chosen track.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

This section describes the elements of the curriculum that are in common for all of the tracks.

Required Courses

Core: 15 Credit Hours

All students take the Secondary Education core, regardless of their chosen specialization.

*Must be taken in first semester of the program.

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators **3 Credit Hours** *
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**

Culminating Experience: 6-9 Credit Hours

Students complete either an action research project or a thesis.

- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- ESE 6427 - Capstone: Action Research in Secondary Education **3 Credit Hours** or
- LAE, MAE, SCE, or SSE 6971 - Thesis **6 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a culminating experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Janet Andreasen PhD
Associate Lecturer
janet.andreasen@ucf.edu
ED 123H

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
 funding.graduate.ucf.edu

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
 finaid.ucf.edu

Secondary Education MEd, English Language Arts Education Track

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The English Language Arts Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the English classroom teacher.

Curriculum

The English Language Arts Education track in the Master of Education (MEd) in Secondary Education program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33-36 Credit Hours

Core: 15 Credit Hours

All students take the Secondary Education core, regardless of their chosen specialization.

*Must be taken in first semester of the program.

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators **3 Credit Hours** *
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**
- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**

Culminating Experience: 6-9 Credit Hours

Students complete either an action research project or a thesis.

- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- ESE 6427 - Capstone: Action Research in Secondary Education **3 Credit Hours** or
- LAE, MAE, SCE, or SSE 6971 Thesis **6 Credit Hours**

Specialization: 12 Credit Hours

Students take four of the following courses:

- LAE 6637 - Research in Teaching English **3 Credit Hours**
- LAE 5295 - Writing Workshop **1-3 Credit Hours**
- LAE 5369 - Literacy Strategies in a Digital Age for Middle and High School **3 Credit Hours**
- LAE 5495 - Assessing Writing **3 Credit Hours**
- LAE 6296 - Advanced Writing Workshop **1-3 Credit Hours**
- LAE 6366 - Advanced Studies in Adolescent Literature **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

English Language Arts Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Elsie Olan PhD

Assistant Professor
elsie.olan@ucf.edu
Telephone: 407-823-5179
Education 223 N

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

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<http://finaid.ucf.edu>

Secondary Education MEd, Mathematics Education Track

College: Community Innovation and Education	Degree: MEd
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Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The Mathematics Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the classroom teacher of mathematics.

Curriculum

The Mathematics Education track in the Secondary Education MEd program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33-36 Credit Hours

Core: 15 Credit Hours

All students take the Secondary Education core, regardless of their chosen specialization.

*Must be taken in first semester of the program.

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators **3 Credit Hours** *
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**
- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**

Culminating Experience: 6 - 9 Credit Hours

Students complete either an action research project or a thesis.

- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- ESE 6427 - Capstone: Action Research in Secondary Education **3 Credit Hours** or
- LAE, MAE, SCE, or SSE 6971 Thesis **6 Credit Hours**

Specialization: 12 Credit Hours

Students take the following courses:

- MAE 6337 - Teaching Algebra in the Secondary School **3 Credit Hours**
- MAE 6338 - Teaching Geometry in the Secondary School **3 Credit Hours**

Select two of the following courses:

- MAE 6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher **3 Credit Hours**
- MAE 6641 - Problem Solving and Critical Thinking Skills **3 Credit Hours**
- MAE 6656 - Using Technology in the Instruction of K-12 Mathematics **3 Credit Hours**
- MAE 6899 - Seminar in Teaching Mathematics **3 Credit Hours**
- IDS 6516 - Leadership Development for Mathematics and Science Teachers **3 Credit Hours**
- IDS 6910 - Research in Mathematics and Science Education **3 Credit Hours**
- IDS 6937 - Teaching Mathematics and Science Using Reform-Based Practices **3 Credit Hours**
- IDS 6939 - Reforming Curriculum in Mathematics and Science Education **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

One official transcript (in a sealed envelope) from each college/university attended.

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Mathematics Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial

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Fellowships

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Contact Info

Graduate Program

Janet Andreasen PhD

Associate Lecturer
ED 123H
janet.andreasen@ucf.edu

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

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finaid@ucf.edu

<http://finaid.ucf.edu>

Secondary Education MEd, Science Education Track

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The Science Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of certified secondary science teachers, enabling them to expand their subject matter knowledge and professional teaching skills.

Curriculum

The Science Education track in the Secondary Education MEd program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33-36 Credit Hours

Core: 15 Credit Hours

All students take the Secondary Education core, regardless of their chosen specialization.

*Must be taken in first semester of the program.

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators **3 Credit Hours** *
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**
- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**

Culminating Experience: 6-9 Credit Hours

Students complete either an action research project or a thesis.

- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- ESE 6427 - Capstone: Action Research in Secondary Education **3 Credit Hours** or LAE, MAE, SCE, or SSE 6971 Thesis **6 Credit Hours**

Specialization: 12 Credit Hours

Select two of the following courses:

- SCE 5836 - Space and Physical Science for Educators **3 Credit Hours**
- ISC 6146 - Environmental Education for Educators **3 Credit Hours**
- IDS 6516 - Leadership Development for Mathematics and Science Teachers **3 Credit Hours**
- IDS 6937 - Teaching Mathematics and Science Using Reform-Based Practices **3 Credit Hours**
- IDS 6939 - Reforming Curriculum in Mathematics and Science Education **3 Credit Hours**

Select two courses in one of the following graduate science content areas:

Biology Focus

- HUN 5247 - Principles of Human Nutrition **3 Credit Hours**
- IDS 5127 - Foundation of Bio-Imaging Science **3 Credit Hours**
- BCH 6740 - Advanced Biochemistry **3 Credit Hours**
- Any graduate-level course with prefix BSC, HSC, MCB, PCB, or ZOO

Chemistry Focus

- BCH 6740 - Advanced Biochemistry **3 Credit Hours**
- HUN 5247 - Principles of Human Nutrition **3 Credit Hours**
- Any graduate-level course with prefix CHM or CHS

Physics Focus

- Any graduate-level course with prefixes AST, OSE, PHY, or PHZ

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Science Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Fellowships

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Contact Info

Graduate Program

Su Gao PhD
 Assistant Professor
 su.gao@ucf.edu
 Telephone: 407-823-4834
 ED 115 F

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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 finaid@ucf.edu
<http://finaid.ucf.edu>

Secondary Education MEd, Social Science Education Track

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The Social Science Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the Social Science classroom teacher.

Curriculum

The Social Science Education track in the Secondary Education MEd program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33-36 Credit Hours

Core: 15 Credit Hours

All students take the Secondary Education core, regardless of their chosen specialization.

*Must be taken in first semester of the program.

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators **3 Credit Hours** *
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**
- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**

Culminating Experience: 6-9 Credit Hours

Students complete either an action research project or a thesis.

- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- ESE 6427 - Capstone: Action Research in Secondary Education **3 Credit Hours** or
- LAE, MAE, SCE, or SSE 6971 Thesis **6 Credit Hours**

Specialization: 12 Credit Hours

Students take four of the following courses:

- SSE 5391 - Global Education: Theory and Practice **3 Credit Hours**
- SSE 5776 - Democracy and Education **3 Credit Hours**
- SSE 6348 - Foundations and Fundamentals of Teaching History in the K-12 Classroom **3 Credit Hours**
- SSE 6388 - Digital History in the K-12 Classroom **3 Credit Hours**
- SSE 6387 - Teaching with Film **3 Credit Hours**
- SSE 6396 - Teaching with Primary Sources in the History Classroom **3 Credit Hours**
- SSE 6636 - Contemporary Social Science Education **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Social Science Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Contact Info

Graduate Program

Scott Waring PhD

Associate Professor

socscied@ucf.edu

Telephone: 407-823-1766

ED 206J

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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PO Box 160112

Orlando, FL 32816-0112

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finaid@ucf.edu

<http://finaid.ucf.edu>

Secondary Education MEd, World Languages Education Track

College: Community Innovation and Education	Degree: MEd
Department: School of Teacher Education	Option: Thesis, Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/	

Track Description

The World Languages Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the world languages and/or dual language classroom teacher.

Curriculum

The World Languages Education track in the Master of Education (MEd) in Secondary Education program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33-36 Credit Hours

Core: 15 Credit Hours

All students take the Secondary Education core, regardless of their chosen specialization.

*Must be taken in first semester of the program.

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators **3 Credit Hours** *
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**

Culminating Experience: 6-9 Credit Hours

Students complete either an action research project or a thesis.

- EDF 6472 - Data-Driven Decision-Making for Instruction **3 Credit Hours**
- ESE 6427 - Capstone: Action Research in Secondary Education **3 Credit Hours** or
- LAE, MAE, SCE, or SSE 6971 Thesis **6 Credit Hours**

Specialization: 12 Credit Hours

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
 - TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- Choose two of the following:**
- FLE 5345 - Teaching World Languages in K-12 Schools **3 Credit Hours**

OR

- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**
Note: Students can take either FLE 5345 or TSL 5345 but not both.
- FLE 6695 - Professional Development in Foreign Language Education **3 Credit Hours**
- TSL 5525 - ESOL Cultural Diversity **3 Credit Hours**
- TSL 6379 - Second Language Literacy **3 Credit Hours**
- TSL 6143 - Curriculum and Instruction in Dual Language Programs **3 Credit Hours**
- TSL 6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom **3 Credit Hours**
- TSL 6443 - Assessment in Dual Language Programs **3 Credit Hours**

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

World Languages Education	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1	Dec 1	Apr 1
International Applicants	Jan 15	Jan 15	Jul 1	Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

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Contact Info

Graduate Program

Michele Regalla PhD

Assistant Professor

Michele.Regalla@ucf.edu

Telephone: 407-823-5791

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

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http://finaid.ucf.edu

Social Work MSW ►

College: Health Professions and Sciences	Degree: MSW
Department: School of Social Work	
Program Website: https://healthprofessions.ucf.edu/socialwork/	
Graduate Program Handbook	

Program Description

The Master of Social Work (MSW) program prepares students for advanced social work practice. The program educates students for community-based clinical social work practice with individuals, families, and groups. The MSW program is accredited by the Council on Social Work Education (CSWE).

The program offers multiple tracks to allow students to progress through the required MSW curriculum on either a full-time or part-time plan of study. The Full-Time Traditional Track and Part-Time Traditional Track are available for students who do not have a BSW degree. The Full-Time Advanced Standing Track and the Part-Time Advanced Standing Track are available for students who have completed a BSW degree from a CSWE-accredited program within the last six years. More information on the plans of study and requirements for each track is given in the individual track descriptions.

Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. Students who apply for admission to the online part-time tracks will not be permitted to switch to the on-campus, traditional tracks and students who apply for admission to the on-campus, traditional tracks will not be permitted to switch to the online part-time tracks.

The curriculum draws from a generalist perspective and emphasizes critical thinking skills, empirically based accountable practice, and ethical services for clients experiencing a wide range of problems. Students learn preventive and therapeutic interventions aimed at enhancing human functioning and quality of life. Graduates of the program will have the ability to work with diverse clients in a variety of agency settings.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf>.

The MSW program strives to educate students to become successful practitioners in the field of clinical social work. To that end, the National Association of Social Workers (NASW) Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Program Tracks

- Social Work MSW, Online Part-Time Track ►
- Social Work MSW, Online Part-Time Advanced Standing Track ►
- Social Work MSW, Full-Time Advanced Standing Track
- Social Work MSW, Full-Time Traditional Track
- Social Work MSW, Part-Time Advanced Standing Track
- Social Work MSW, Part-Time Traditional Track

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Master of Social Work Program offers several options to students including full-time study, advanced standing admission, as well as the mixed mode and online classes to support the part-time study. Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

MSW Admissions
mswadmissions@ucf.edu
Telephone: 407-823-3474
HPA 1 Suite 236

Graduate Admissions

TBA
gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Social Work MSW, Full-Time Advanced Standing Track

College: Health Professions and Sciences	Degree: MSW
Department: School of Social Work	Option: Nonthesis
Program Websites: https://healthprofessions.ucf.edu/socialwork/	
Graduate Program Handbook	

Track Description

The Master of Social Work (MSW) Program, Full-Time Advanced Standing Track allows students with baccalaureate degrees in Social Work from a CSWE-accredited school/program who demonstrate academic potential and professional maturity to complete the MSW in three semesters of graduate study.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program. The Full-Time Advanced Standing Track is offered at the main campus and may be completed in three semesters (summer, fall, and spring).

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf>.

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Curriculum

The 32-hour MSW program is composed of 18 credit hours of required core and advanced clinical specialization courses. In addition, students complete 6 credit hours of electives and 8 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The MSW Advanced Standing track allows no more than one C grade or 3 credit hours (whichever is greater) to be used toward the degree requirements. Exceeding three credit hours or one C grade is grounds for dismissal from the MSW Advanced Standing track.

Previous baccalaureate coursework that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation-level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

Total Credit Hours Required: 32 Credit Hours Minimum beyond the Bachelor's Degree

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Prerequisites

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Required Courses: 18 Credit Hours

Clinical Specialization: 18 Credit Hours

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

Electives: 6 Credit Hours

Two clinical electives are required as components of the clinical specialization:

- Clinical elective **3 Credit Hours**
- Clinical elective **3 Credit Hours**

Approved clinical electives:

- SOW 6149 - Military Culture and Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6109 - Violence Against Women: A Global Perspective **3 Credit Hours** (Clinical)
- SOW 6155 - Human Sexuality in Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6603 - Social Work in Health Settings **3 Credit Hours** (Clinical)
- SOW 6604 - Medications in Social Work Practice **3 Credit Hours** (Advanced Clinical)
- SOW 6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders **3 Credit Hours** (Clinical)
- SOW 6610 - Clinical Practice with Military and Veteran Families or Groups **3 Credit Hours** (Clinical)
- SOW 6635 - Social Work Practice in Schools **3 Credit Hours** (Clinical)
- SOW 6644 - Interventions with Older Adults and Their Families **3 Credit Hours** (Clinical)
- SOW 6652 - Child Welfare Services **3 Credit Hours** (Clinical)
- SOW 6655 - Child Abuse: Treatment and Prevention **3 Credit Hours** (Clinical)
- SOW 6670 - Clinical Social Work Practice with LGBTQ+ **3 Credit Hours** (Clinical)
- SOW 6712 - Clinical Social Work Practice with Substance Addictions **3 Credit Hours** (Clinical)
- SOW 6713 - Prevention and Treatment of Adolescent Substance Use and Misuse **3 Credit Hours** (Clinical)
- SOW 6726 - Social Work Practice with Children from Birth to Age Five and their Families **3 Credit Hours** (Clinical)
- SOW 6727 - Core Concepts of Child and Adolescent Trauma **3 Credit Hours** (Clinical)
- SOW 6735 - Documentation Skills for Helping Professionals **3 Credit Hours** (Clinical)
- SOW 6756 - Forensic Social Work **3 Credit Hours** (Clinical)
- SOW 6846 - Spirituality in Clinical Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6806 - Behavioral Health Skills for Clinical Social Workers **3 Credit Hours** (Advanced Clinical)

Field Experience: 8 Credit Hours

- Clinical Field Education and Integrative Seminars **8 Credit Hours**

Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge; to develop and refine both foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar.

Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements.

Many social work agencies have students complete background checks, including formal background checks, law enforcement finger printing, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made.

The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Required Sequence of Curriculum

First Semester (Summer)

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

Second Semester (Fall)

- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6531 - Full Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 2 credit hours

Third Semester (Spring)

- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**
- SOW Clinical elective
- SOW Clinical elective
- SOW 6536 - Full Time MSW Clinical Field Education and Seminar II **4 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 2 credit hours

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Students who have completed course work in an accredited MSW program may transfer up to 9 credit hours **non-field courses** toward the 32 credit hours of the degree. Students must have received a grade of "B-" or higher in these courses. Courses will be evaluated on a course-by-course basis by the MSW Director. Field classes are not eligible for transfer.

Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures.

Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Coordinator or academic adviser. Syllabi are required for any social work classes being considered for transfer credit.

As per university policy, transfer credits will not be considered for the market based fully online part time tracks.

Equipment Fee

Full-time students in the MSW program pay a \$35 equipment fee each semester that they are enrolled.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **Up-to-date résumé**
- **Video Essay**
- **Three letters of recommendation** that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline.

Applicants must provide a letter of recommendation from each of the following:

- **Academic:** A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an

employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.

- **Field:** An agency field task supervisor who has directly supervised the applicant in a social work field internship setting.
 - **Employment:** Either volunteer or paid employment immediate supervisor.
 - **A Professional Statement:** Applicants must answer the following questions within 3-6 pages. **Please use headings for each question.**
 - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
 - What are your social work career interests?
 - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
 - Where do you see yourself 10 years from now in the field of social work?
 - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
 - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
 - The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.
 - **Writing Sample:** Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. **Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format,** and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Please note:** The MSW program only accepts one application from each prospective student per academic year. Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students are admitted and will begin coursework in summer semesters only.

To be retained in the program, students must attend the mandatory MSW Program Orientation that takes place the week before summer classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

Students are also expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Handbook, and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level social work practice.

Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if-- in the judgment of the faculty-- the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

Advanced Standing

To be considered for advanced standing admission, applicants must have a baccalaureate degree in Social Work from a CSWE-accredited program and demonstrate the academic potential and professional maturity to meet the demands of the program with a 3.3 GPA in their last 60 credits. Previous baccalaureate coursework that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

Application Deadlines

Full-Time Advanced Standing	*Fall Priority	Fall	Spring	Summer
Domestic Applicants				Apr 1
International Applicants				Nov 1
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Maxine McGregor, MSW, MS
Instructor, MSW Program Director
maxine.mcgregor@ucf.edu
Telephone: 407-823-3037
HS 1, Suite 233

Brandon Ruff
Admissions Specialist
brandon.ruff@ucf.edu
Telephone: 407-823-3474
HS 1, Suite 236

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827

Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Social Work MSW, Full-Time Traditional Track

College: Health Professions and Sciences	Degree: MSW
Department: School of Social Work	Option: Nonthesis
Graduate Program Handbook	

Track Description

The Master of Social Work (MSW), Full-Time Traditional Track allows students who do not have a BSW degree to complete the MSW required curriculum in two years of full-time study at the main campus.

The first year of study in the Master of Social Work (MSW), Full-Time Traditional Track includes 24 credit hours in class work and 6 credit hours in field education. The second year of study includes 24 credit hours in class work and 8 credit hours in the field.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf>.

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Curriculum

The 62-hour MSW program is composed of 39 credit hours of required core and advanced clinical specialization courses. In addition, students complete 9 credit hours of electives and 14 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers, and internships also contribute to the self-development of our students. Students in the 62-hour program must include at least 31 hours of course work at the 6000 level in their program of study.

Total Credit Hours Required: 62 Credit Hours Minimum beyond the Bachelor's Degree

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Prerequisites

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Required Courses: 39 Credit Hours

Core: 21 Credit Hours

The core provides the foundation curriculum for the generalist Social Work practice.

- SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice **3 Credit Hours**
- SOW 5132 - Diverse Client Populations **3 Credit Hours**
- SOW 5235 - Social Welfare Policies and Services **3 Credit Hours**
- SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**
- SOW 5306 - Social Work Practice II: Intervention Approaches **3 Credit Hours**
- SOW 5404 - Social Work Research **3 Credit Hours**

Clinical Specialization: 18 Credit Hours

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**

Electives: 9 Credit Hours

One elective is required as a component of the foundation curriculum and two clinical electives are required as components of the clinical specialization. Students may choose to take clinical electives for all three required MSW electives.

- Practice/ Non-Clinical or Clinical elective **3 Credit Hours**
- Clinical elective **3 Credit Hours**
- Clinical elective **3 Credit Hours**

Approved electives:

- SOW 6149 - Military Culture and Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6109 - Violence Against Women: A Global Perspective **3 Credit Hours** (Clinical)
- SOW 6155 - Human Sexuality in Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6383 - Social Work Administration **3 Credit Hours** (Practice/Non-clinical)
- SOW 6603 - Social Work in Health Settings **3 Credit Hours** (Clinical)
- SOW 6604 - Medications in Social Work Practice **3 Credit Hours** (Advanced Clinical)

- SOW 6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders **3 Credit Hours** (Clinical)
- SOW 6610 - Clinical Practice with Military and Veteran Families or Groups **3 Credit Hours** (Clinical)
- SOW 6635 - Social Work Practice in Schools **3 Credit Hours** (Clinical)
- SOW 6644 - Interventions with Older Adults and Their Families **3 Credit Hours** (Clinical)
- SOW 6652 - Child Welfare Services **3 Credit Hours** (Clinical)
- SOW 6655 - Child Abuse: Treatment and Prevention **3 Credit Hours** (Clinical)
- SOW 6670 - Clinical Social Work Practice with LGBTQ+ **3 Credit Hours** (Clinical)
- SOW 6712 - Clinical Social Work Practice with Substance Addictions **3 Credit Hours** (Clinical)
- SOW 6713 - Prevention and Treatment of Adolescent Substance Use and Misuse **3 Credit Hours** (Clinical)
- SOW 6726 - Social Work Practice with Children from Birth to Age Five and their Families **3 Credit Hours** (Clinical)
- SOW 6727 - Core Concepts of Child and Adolescent Trauma **3 Credit Hours** (Clinical)
- SOW 6735 - Documentation Skills for Helping Professionals **3 Credit Hours** (Clinical)
- SOW 6756 - Forensic Social Work **3 Credit Hours** (Clinical)
- SOW 6806 - Behavioral Health Skills for Clinical Social Workers **3 Credit Hours** (Advanced Clinical)
- SOW 6846 - Spirituality in Clinical Social Work Practice **3 Credit Hours** (Clinical)

Field Experience: 14 Credit Hours

- Generalist Field Education and Integrative Seminars **6 Credit Hours**
- Clinical Field Education and Integrative Seminars **8 Credit Hours**

Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Generalist MSW students complete a minimum of 400 hours in the field; clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar.

Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements.

Many social work agencies have students complete background checks, including formal background checks, law enforcement fingerprinting, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made.

The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Required Sequence of Curriculum

First Semester (Fall)

- SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- SOW 5132 - Diverse Client Populations **3 Credit Hours**
- SOW 5235 - Social Welfare Policies and Services **3 Credit Hours**
- SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**

- SOW 5538 - Full-Time MSW Generalist Field Integrative Seminar I **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 2 credit hours

Second Semester (Spring)

- SOW 5306 - Social Work Practice II: Intervention Approaches **3 Credit Hours**
- SOW 5404 - Social Work Research **3 Credit Hours**
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice **3 Credit Hours**
- SOW Elective (Clinical or Non-Clinical)
- SOW 5539 - Full-Time MSW Generalist Field Integrative Seminar II **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 2 credit hours

Third Semester (Summer)

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

Fourth Semester (Fall)

- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6531 - Full Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 2 credit hours

Fifth Semester (Spring)

- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**
- SOW Clinical elective
- SOW Clinical elective
- SOW 6536 - Full Time MSW Clinical Field Education and Seminar II **4 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 2 credit hours

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Transfer credits will be evaluated on a case by case basis by the MSW Program Director. Students must submit syllabi and have earned a grade of "B-" or better in these courses in order for them to be evaluated for transfer credit.

Field courses taken elsewhere cannot be transferred toward satisfying the field component of the degree.

Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures. Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant

is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Coordinator or academic adviser.

As per university policy, transfer credits will not be considered for the market based fully online part time tracks.

Equipment Fee

Full-time students in the MSW program pay a \$35 equipment fee each semester that they are enrolled.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition, to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **Up-to-date résumé.**
- **Video Essay**
- **Three current letters of recommendation** that have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received. Letters still must be submitted by the application deadline.

Applicants must provide a letter of recommendation from each of the following:

- **Academic:** A professor from a previously attended college/university who taught you in a course. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
- **Employment:** Either volunteer or paid employment immediate supervisor.
- **Third Recommendation:** A second academic or employment-based recommendation should be submitted for the third recommendation.

- **A Professional Statement:** Applicants must answer the following questions within 3-6 pages. **Please use heading for each question.**
 - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
 - What are your social work career interests?
 - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
 - Where do you see yourself 10 years from now in the field of social work?
 - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
 - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
 - The MSW program requires students to complete a generalist (400 hours) internship and a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.
 - **Writing Sample:** Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. **Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format,** and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Please note:** The MSW program only accepts one application from each prospective student per academic year. Applicants must choose to apply to one track and one semester only

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students admitted will begin coursework in the fall semester only.

To be retained in the program, students must attend the mandatory MSW Program Orientation that takes place the week before fall classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

To be accepted into and retained in the program, students are expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Handbook--which students must read prior to beginning their plan of study. These essential functions define the minimal professional, cognitive, and behavioral abilities required for successful program completion along as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand that they must adhere to these essential functions in order to be in good standing and remain in the MSW Program.

Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

MSW graduates from CSWE accredited programs outside of UCF who need to complete a field placement for Florida licensure (LCSW) must apply to the MSW program as a full-time or part-time second-year clinical student.

Application Deadlines

Full-Time Traditional	*Fall Priority	Fall	Spring	Summer
Domestic Applicants	Jan 15	Jul 1		
International Applicants	Jan 15	Jan 15		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Maxine McGregor, MSW, MS
 Instructor, MSW Program Director
 maxine.mcgregor@ucf.edu
 Telephone: 407-823-3037
 HS 1, Suite 233

Brandon Ruff
 Admissions Specialist
 brandon.ruff@ucf.edu

Telephone: 407-823-3474
HS 1, Suite 236

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Social Work MSW, Online Part-Time Advanced Standing Track ►

College: Health and Public Affairs	Degree: MSW
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Department: Social Work	Option: Nonthesis
Graduate Program Handbook	

Track Description

The Online Master of Social Work (MSW) Part-Time Advanced Standing Track **is offered completely online** and allows students with baccalaureate degrees in Social Work from a CSWE-accredited school/program who demonstrate academic potential and professional maturity to complete the MSW degree in four semesters of graduate study.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

The MSW program strives to educate students to become successful practitioners in the field of clinical social work. To that end, the National Association of Social Workers (NASW) Code of Ethics is reinforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Students who apply for admission to the Online Part-time Advanced Standing track will not be permitted to switch to the on-campus, face-to-face track due to the strict cohort model followed by the online program.

This track is completed entirely online and charges an enhanced tuition rate. As such, Online MSW students are not permitted to simultaneously enroll in any graduate or certificate programs through UCF. Please visit UCF Online for additional information about tuition and fees.

Please note: Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf>.

Curriculum

The 32-hour MSW program is composed of 18 credit hours of required core and advanced clinical specialization courses. In addition, students complete 6 credit hours of electives and 8 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The MSW Advanced Standing track allows no more than one C grade or 3 credit hours (whichever is greater) to be used toward the degree requirements. Exceeding three credit hours or one C grade is grounds for dismissal from the MSW Advanced Standing track.

Total Credit Hours Required: 32 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

The Council on Social Work Education (CSWE) requires that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following areas:

Humanities (examples: fine arts, history, languages, literature, philosophy, or religion)

Physical and Biological Sciences (examples: biology, chemistry, anatomy, or physiology)

Mathematics (examples: calculus, college algebra, computer science, or statistics)

Social Sciences (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Required Courses: 18 Credit Hours

Clinical Specialization: 18 Credit Hours

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

Electives: 6 Credit Hours

Two clinical electives are required as components of the clinical specialization. They are selected in consultation with adviser and Online MSW coordinator.

- Clinical elective **3 credit hours**
- Clinical elective **3 credit hours**

Approved Clinical Electives

- SOW 6644 - Interventions with Older Adults and Their Families **3 Credit Hours**
- SOW 6806 - Behavioral Health Skills for Clinical Social Workers **3 Credit Hours**
- SOW 6604 - Medications in Social Work Practice **3 Credit Hours**
- SOW 6670 - Clinical Social Work Practice with LGBTQ+ **3 Credit Hours**

Field Experience: 8 Credit Hours

Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar.

Students must complete at least 50 percent of their field hours during the agency's normal business hours.

Evening (after 5:00 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements.

Many social work agencies have students complete background checks, including formal background checks, law enforcement fingerprinting, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made.

The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Required Sequence of Curriculum

*The Online MSW is primarily an asynchronous program, which means that our courses are generally not held during a fixed meeting time. However, there are some courses where synchronous, or "live" sessions are a required component of the course assignments. Because an MSW is a professional degree that allows students to engage directly with clients, synchronous sessions are put in place to support student's skills and evaluation in this area.

Some of the courses that may have required live components as a part of an assignment include, but are not limited to SOW 6324 Clinical Social Work Practice with Groups and SOW 6433 Clinical Evaluation in Social Work Practice. Dates and times of live sessions will be announced before the course begins, or in some courses, multiple options are provided.

First Semester (Fall)

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

Second Semester (Spring)

- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
(2 credit hours)

Third Semester (Summer)

- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- Clinical Elective
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
(1 credit hour)

Fourth Semester (Fall)

- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**

- Clinical Elective
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
(1 credit hour)

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Due to the cohort nature of the track and university policy, transfer credits will not be considered for the market-based, fully online part-time Advanced Standing track.

Cost Per Credit Hour

For the Online Part-Time Social Work track in the Social Work MSW program, the cost per credit hour is \$487.45.*

*Includes all university fees, which may be subject to change.

Tuition waivers are not accepted for the Online MSW.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students. The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online.

All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition, to the general UCF graduate application requirements, applicants to this program must provide:

- **Official transcripts** from all colleges/universities attended
- Successful completion (with a grade of C or higher) of at least one course in each of the following areas:
 - Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion)
 - Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
 - Mathematics** (examples: calculus, college algebra, computer science, or statistics)
 - Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **Up to date résumé**
- **Three current letters of recommendation** that have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. will not be considered. Please submit your

application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline.

- **Academic:** A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors will not be accepted as academic letters. Recommendations from full-time faculty are strongly encouraged. Letters from advisors will not be considered unless indicated that they also taught you as a student.
 - **Employment:** Letter from immediate supervisor of either volunteer or paid work experience.
 - **Field:** An agency field instructor or an agency field task supervisor who has directly supervised the applicant in a social work field internship setting.
 - **Professional statement.** Applicants must answer the following questions within 3-6 pages. Please use headings for each question.
 - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
 - What are your social work career interests?
 - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
 - Where do you see yourself 10 years from now in the field of social work?
 - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
 - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
 - The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5:00 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.
 - **Writing sample.** Applicants must submit an individually authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. Group papers will not be accepted. **The paper should be 5-10 pages in length, contain citations, and a reference list in APA format**, and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, and case studies will not be considered. If the applicant does not have an academic paper, then they must write a 5-10 page paper in APA format that addresses any social issue related to social work.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Please note:** *The MSW program only accepts one application from each prospective student per academic year (Fall, Spring, Summer). Applicants must choose to apply to one track and one semester only.*

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students are admitted and can begin coursework in fall semesters **only**. To be accepted into and retained in the program, students are expected to demonstrate initiative, dependability, social concern, self-awareness, appreciation for diversity in others, problem-solving ability, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Student Handbook and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behaviors incongruent to working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

Advanced Standing

To be considered for advanced standing admission, applicants must have a baccalaureate degree in Social Work from a CSWE-accredited program and demonstrate the academic potential and professional maturity to meet the demands of the program with a 3.3 GPA in their last 60 credits. Previous baccalaureate course work that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

Application Deadlines

Online Part-Time Advanced Standing	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		June 1		
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Shellene Mazany, MSW, LCSW

Online MSW Director, Associate Instructor
Shellene.Mazany@ucf.edu
Telephone: 407-823-1089

Minoska Hernandez

Online MSW Admissions Specialist
Minoska.Hernandez@ucf.edu
Telephone: 407-823-4110

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Social Work MSW, Online Part-Time Track ►

College: Health Professions and Sciences	Degree: MSW
Department: School of Social Work	Option: Nonthesis
Program Websites: https://healthprofessions.ucf.edu/socialwork/	
Graduate Program Handbook	

Track Description

The Online Master of Social Work (MSW) Part-Time Track is **offered completely online** and allows students who do not have a BSW degree to complete the MSW required curriculum online over the course of three years.

The first year of study in the Online Master of Social Work (MSW) Part-Time Track includes 18 credit hours in class work. The second year of study includes 18 credit hours in class work and 6 credit hours in the field. The third year of study includes 12 credit hours in class work and 8 credit hours in the field.

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Students who apply for admission into the Online Part-Time Track will not be permitted to switch to the on-campus, face-to-face track due to the strict cohort model the track follows.

This track is completed entirely online and charges an enhanced tuition rate. As such, Online MSW students are not permitted to simultaneously enroll in any graduate or certificate programs through UCF. Please visit UCF Online for additional information about tuition and fees.

Please note: Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online

format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf>.

Curriculum

The 62-hour MSW program is composed of 39 credit hours of required core and advanced clinical specialization courses. In addition, students complete 9 credit hours of electives and 14 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers, and internships also contribute to the self-development of our students. Students in the 62-hour program must include at least 31 hours of course work at the 6000 level in their program of study.

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Total Credit Hours Required: 62 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

The Council on Social Work Education (CSWE) requires that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following areas:

- Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion)
- Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
- Mathematics** (examples: calculus, college algebra, computer science, or statistics)
- Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Required Courses: 39 Credit Hours

Core: 21 Credit Hours

The core provides the foundation curriculum for the generalist Social Work practice.

- SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- SOW 5132 - Diverse Client Populations **3 Credit Hours**
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice **3 Credit Hours**
- SOW 5235 - Social Welfare Policies and Services **3 Credit Hours**
- SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**
- SOW 5306 - Social Work Practice II: Intervention Approaches **3 Credit Hours**
- SOW 5404 - Social Work Research **3 Credit Hours**

Clinical Specialization: 18 Credit Hours

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**

Electives: 9 Credit Hours

One elective is required as a component of the foundation curriculum and two clinical electives are required as components of the clinical specialization. Students in the online track will take clinical electives for all three required MSW electives.

- Clinical Elective
- Clinical Elective
- Clinical Elective

Approved Electives

- SOW 6155 - Human Sexuality in Social Work Practice **3 Credit Hours**
- SOW 6652 - Child Welfare Services **3 Credit Hours**
- SOW 6603 - Social Work in Health Settings **3 Credit Hours**
- SOW 6604 - Medications in Social Work Practice **3 Credit Hours**
- SOW 6610 - Clinical Practice with Military and Veteran Families or Groups **3 Credit Hours**
- SOW 6644 - Interventions with Older Adults and Their Families **3 Credit Hours**
- SOW 6670 - Clinical Social Work Practice with LGBTQ+ **3 Credit Hours**
- SOW 6712 - Clinical Social Work Practice with Substance Addictions **3 Credit Hours**
- SOW 6735 - Documentation Skills for Helping Professionals **3 Credit Hours**
- SOW 6806 - Behavioral Health Skills for Clinical Social Workers **3 Credit Hours**

Field Experience: 14 Credit Hours

Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Generalist MSW students complete a minimum of 400 hours in the field; clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar.

Students must complete at least 50% of their field hours during the agency's normal business hours. **Evening (after 5 p.m.) and weekend placements are extremely limited.** The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements.

Many social work agencies have students complete background checks, including formal background checks, law enforcement fingerprinting, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may

prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made.

The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

- Generalist Field Education and Seminars (6 credit hours)
- Clinical field Education and Seminars (8 credit hours)

Required Sequence of Curriculum

*The Online MSW is primarily an asynchronous program, which means that our courses are generally not held during a fixed meeting time. However, there are some courses where synchronous, or "live" sessions are a required component of the course assignments. Because an MSW is a professional degree that allows students to engage directly with clients, synchronous sessions are put in place to support student's skills and evaluation in this area.

Some of the courses that may have required live components as a part of an assignment include, but are not limited to SOW 5306 Social Work Practice II, SOW 6324 Clinical Social Work Practice with Groups, and SOW 6433 Clinical Evaluation in Social Work Practice. Dates and times of live sessions will be announced before the course begins, or in some courses, multiple options are provided.

+Depending on the term in which you enter the Online MSW, your final year of the program may show classes in a different sequence. A Plan of Study will be provided to you prior to the beginning of classes with the correct sequence for your cohort.

First Semester

- Term 1.1 - SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- Term 1.2 - SOW 5132 - Diverse Client Populations **3 Credit Hours**

Second Semester

- Term 2.1 - SOW 5235 - Social Welfare Policies and Services **3 Credit Hours**
- Term 2.2 - SOW 5404 - Social Work Research **3 Credit Hours**

Third Semester

- Term 3.1 - SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**
- Clinical Elective - Term 3.2

Fourth Semester

- Term 4.1 - SOW 5306 - Social Work Practice II: Intervention Approaches **3 Credit Hours** *
- Term 4.2 - SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours** *
- SOW 5565 - Part-Time MSW Generalist Field Integrative Seminar I **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 1 credit hour

Fifth Semester

- Term 5.1 Clinical Elective
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice **3 Credit Hours** Term 5.2 -
- SOW 5566 - Part-Time MSW Generalist Field Integrative Seminar II **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 1 credit hour

Sixth Semester

- Term 6.1 - SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- Term 6.2 - SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours** *
- SOW 5567 - Part-Time MSW Generalist Field Integrative Seminar III **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 1 credit hour

Seventh Semester+

- Term 7.1 - SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- Term 7.2 - SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 2 credit hours

Eighth Semester+

- Term 8.1 - SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- Term 8.2 Clinical Elective
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 1 credit hour

Ninth Semester+

- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 1 credit hour

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Due to the cohort nature of the track and university policy, transfer credits will not be considered for the market-based, fully online part-time MSW track.

Cost Per Credit Hour

For the Online Part-Time Social Work track in the Social Work MSW program, the cost per credit hour is \$487.45.*

*Includes all university fees, which may be subject to change.

Tuition waivers are not accepted for the Online MSW.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students. The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition, to the general UCF graduate application requirements, applicants to this program must provide:

- **Official transcripts** from all colleges/universities attended
- Successful completion (with a grade of C or higher) of at least one course in each of the following areas:
 - Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion)
 - Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
 - Mathematics** (examples: calculus, college algebra, computer science, or statistics)
 - Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **Up to date résumé**
- **Three current letters of recommendation** that have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. will not be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline.
 - **Academic:** A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors will not be accepted as academic letters. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student.
 - **Employment:** Letter from an immediate supervisor of either volunteer or paid work experience.
 - **Third recommendation:** A second academic or employment-based recommendation should be submitted for the third recommendation.
 - **Professional statement.** Applicants must answer the following questions within 3-6 pages. **Please use headings for each question.**

- Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
 - What are your social work career interests?
 - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
 - Where do you see yourself 10 years from now in the field of social work?
 - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
 - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
 - The MSW program requires students to complete a generalist (400 hours) internship and a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.
 - **Writing sample.** Applicants must submit an individually authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. Group papers will not be accepted. **The paper should be 5-10 pages in length, contain citations, and a reference list in APA format,** and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, and case studies will not be considered. If the applicant does not have an academic paper, then they must write a 5-10 page paper in APA format that addresses any social issue related to social work.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Please note:** The MSW program only accepts one application from each prospective student per academic year (Fall, Spring, Summer). Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

To be accepted into and retained in the program, students are expected to demonstrate initiative, dependability, social concern, self-awareness, appreciation for diversity in others, problem-solving ability, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Student Handbook and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behaviors incongruent to working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

Application Deadlines

Online Part-Time	*Fall Priority	Fall	Spring	Su
Domestic Applicants		Jun 1	Nov 1	M
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Shellene Mazany, MSW, LCSW
 Online MSW Director, Associate Instructor
 Shellene.Mazany@ucf.edu
 Telephone: 407-823-1089

Minoska Hernandez
Online MSW Admissions Specialist
Minoska.Hernandez@ucf.edu
Telephone: 407-823-4110

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Social Work MSW, Part-Time Advanced Standing Track

College: Health Professions and Sciences	De MS
Department: School of Social Work	Op No
Program Websites: https://healthprofessions.ucf.edu/socialwork/	
Graduate Program Handbook	

Track Description

The Master of Social Work (MSW) Program, Part-Time Advanced Standing Track allows students with baccalaureate degrees in Social Work from a CSWE-accredited school/program who demonstrate academic potential and professional maturity to complete the MSW degree at the main campus in four semesters of graduate study.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program. The Part-Time Advanced Standing Track is offered at the main campus and may be completed in four semesters (summer, fall, spring, and summer).

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf>.

Please note: Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

Curriculum

The 32-hour MSW program is composed of 18 credit hours of required core and advanced clinical specialization courses. In addition, students complete 6 credit hours of electives and 8 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The MSW Advanced Standing track allows no more than one C grade or 3 credit hours (whichever is greater) to be used toward the degree requirements. Exceeding

three credit hours or one C grade is grounds for dismissal from the MSW Advanced Standing track.

Previous baccalaureate coursework that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation-level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

Total Credit Hours Required: 32 Credit Hours Minimum beyond the Bachelor's Degree

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Prerequisites

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Required Courses: 18 Credit Hours

Clinical Specialization: 18 Credit Hours

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

Electives: 6 Credit Hours

Two clinical electives are required as components of the clinical specialization:

- Clinical elective **3 Credit Hours**
- Clinical elective **3 Credit Hours**

Approved clinical electives:

- SOW 6149 - Military Culture and Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6109 - Violence Against Women: A Global Perspective **3 Credit Hours** (Clinical)
- SOW 6155 - Human Sexuality in Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6383 - Social Work Administration **3 Credit Hours** (Practice/Non-clinical)
- SOW 6603 - Social Work in Health Settings **3 Credit Hours** (Clinical)
- SOW 6604 - Medications in Social Work Practice **3 Credit Hours** (Advanced Clinical)
- SOW 6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders **3 Credit Hours** (Clinical)
- SOW 6610 - Clinical Practice with Military and Veteran Families or Groups **3 Credit Hours** (Clinical)
- SOW 6635 - Social Work Practice in Schools **3 Credit Hours** (Clinical)
- SOW 6644 - Interventions with Older Adults and Their Families **3 Credit Hours** (Clinical)
- SOW 6652 - Child Welfare Services **3 Credit Hours** (Clinical)
- SOW 6655 - Child Abuse: Treatment and Prevention **3 Credit Hours** (Clinical)
- SOW 6670 - Clinical Social Work Practice with LGBTQ+ **3 Credit Hours** (Clinical)
- SOW 6712 - Clinical Social Work Practice with Substance Addictions **3 Credit Hours** (Clinical)
- SOW 6713 - Prevention and Treatment of Adolescent Substance Use and Misuse **3 Credit Hours** (Clinical)
- SOW 6726 - Social Work Practice with Children from Birth to Age Five and their Families **3 Credit Hours** (Clinical)
- SOW 6727 - Core Concepts of Child and Adolescent Trauma **3 Credit Hours** (Clinical)
- SOW 6735 - Documentation Skills for Helping Professionals **3 Credit Hours** (Clinical)
- SOW 6756 - Forensic Social Work **3 Credit Hours** (Clinical)
- SOW 6806 - Behavioral Health Skills for Clinical Social Workers **3 Credit Hours** (Advanced Clinical)
- SOW 6846 - Spirituality in Clinical Social Work Practice **3 Credit Hours** (Clinical)

Field Experience: 8 Credit Hours

- Clinical Field Education and Integrative Seminars **8 Credit Hours**

Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar.

Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements.

Many social work agencies have students complete background checks, including formal background checks, law enforcement finger printing, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made.

The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Required Sequence of Curriculum

*The Online MSW is primarily an asynchronous program, which means that our courses are generally not held during a fixed meeting time. However, there are some courses where synchronous, or "live" sessions are a required component of the course assignments. Because an MSW is a professional degree that allows students to engage directly with clients, synchronous sessions are put in place to support student's skills and evaluation in this area.

Some of the courses that may have required live components as a part of an assignment include, but are not limited to **SOW 6324 Clinical Social Work Practice with Groups** and **SOW 6433 Clinical Evaluation in Social Work Practice**. Dates and times of live sessions will be announced before the course begins, or in some courses, multiple options are provided.

First Semester (Summer)

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

Second Semester (Fall)

- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 1 credit hour

Third Semester (Spring)

- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**

- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
- SOW 6XXX Clinical Elective
Take 1 credit hour

Fourth Semester (Summer)

- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 1 credit hour
- SOW 6XXX Clinical Elective

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Students who have completed coursework in an accredited MSW program may transfer up to 9 credit hours of non-field coursework toward the 32 credit hours of the degree. Students must have received a grade of "B-" or higher in these courses. Courses will be evaluated on a course-by-course basis by the MSW Director. Field classes are not eligible for transfer. Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures. Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Director or academic adviser. Syllabi are required for any social work classes being considered for transfer credit.

As per university policy, transfer credits will not be considered for the market based fully online part time track.

Equipment Fee

Full-time students in the MSW program pay a \$35 equipment fee each semester that they are enrolled.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students. The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
 - **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
 - **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
 - **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
 - **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **Up-to-date résumé.**
- **Video Essay**
- **Three current letters of recommendation** that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline.
- **Academic:** A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
- **Employment:** Either volunteer or paid employment immediate supervisor.
- **Field:** An agency field task supervisor who has directly supervised the applicant in a social work field internship setting.
- **A Professional Statement:** Applicants must answer the following questions within 3-6 pages. **Please use headings for each question.**
 - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
 - What are your social work career interests?
 - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
 - Where do you see yourself 10 years from now in the field of social work?

- What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
- As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
- The MSW program requires students to complete a generalist (400 hours) internship and a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.
- **Writing Sample:** Applicants must submit an individually authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. **Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format,** and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then they must write a 5-10 page paper in APA format that addresses any social issue related to social work.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Please note: The MSW program only accepts one application from each prospective student per academic year (Fall, Spring, Summer). Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students are admitted and can begin coursework in summer semesters only.

To be retained in the program, a student must attend the mandatory MSW Program Orientation that takes place the week before summer classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

To be accepted into and retained in the program, students are expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions

can be found in the MSW Handbook and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

Advanced Standing

To be considered for advanced standing admission, applicants must have a baccalaureate degree in Social Work from a CSWE-accredited program and demonstrate the academic potential and professional maturity to meet the demands of the program with a 3.3 GPA in their last 60 credits. Previous baccalaureate coursework that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

Advanced Standing

To be considered for advanced standing admission, applicants must have a baccalaureate degree in Social Work from a CSWE-accredited program and demonstrate the academic potential and professional maturity to meet the demands of the program with a 3.3 GPA in their last 60 credits. Previous baccalaureate course work that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

Application Deadlines

Part-Time Advanced Standing	*Fall Priority	Fall	Spring
Domestic Applicants			
International Applicants			
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.			

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Maxine McGregor, MSW, MS
 Instructor, MSW Program Director
 maxine.mcgregor@ucf.edu
 Telephone: 407-823-3037
 HS 1, Suite 233

Brandon Ruff
 Admissions Specialist
 brandon.ruff@ucf.edu
 Telephone: 407-823-3474
 HS 1, Suite 236

Graduate Admission

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Social Work MSW, Part-Time Traditional Track

College: Health Professions and Sciences

Department: School of Social Work

Program Websites: <https://healthprofessions.ucf.edu/socialwork/>

Track Description

The Master of Social Work (MSW) Program, Part-Time Traditional Track allows students who do not have a BSW degree to complete the MSW required curriculum at the main campus.

The first year of study in the Master of Social Work (MSW) Program, Part-Time Traditional Track includes 18 credit hours in classwork. The second year of study includes 18 credit hours in classwork and 6 credit hours in the field. The third year of study includes 12 credit hours in classwork and 8 credit hours in the field.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf>.

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Please note: Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

Curriculum

The 62-hour MSW program is composed of 39 credit hours of required core and advanced clinical specialization courses. In addition, students complete 9 credit hours of electives and 14 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students. Students in the 62-hour program must include at least 31 hours of course work at the 6000 level in their program of study.

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Total Credit Hours Required: 62 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Required Courses: 39 Credit Hours

Core: 21 Credit Hours

The core provides the foundation curriculum for the generalist Social Work practice.

- SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice **3 Credit Hours**
- SOW 5132 - Diverse Client Populations **3 Credit Hours**
- SOW 5235 - Social Welfare Policies and Services **3 Credit Hours**
- SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**
- SOW 5306 - Social Work Practice II: Intervention Approaches **3 Credit Hours**
- SOW 5404 - Social Work Research **3 Credit Hours**

Clinical Specialization: 18 Credit Hours

- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**

Electives: 9 Credit Hours

One elective is required as a component of the foundation curriculum and two clinical electives are required as components of the clinical specialization. Students may choose to take clinical electives for all three required MSW electives.

- Practice/Non-clinical or Clinical Elective **3 Credit Hours**
- Clinical elective **3 Credit Hours**
- Clinical elective **3 Credit Hours**

Approved electives:

- SOW 6149 - Military Culture and Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6109 - Violence Against Women: A Global Perspective **3 Credit Hours** (Clinical)
- SOW 6155 - Human Sexuality in Social Work Practice **3 Credit Hours** (Clinical)
- SOW 6383 - Social Work Administration **3 Credit Hours** (Practice/Non-clinical)
- SOW 6603 - Social Work in Health Settings **3 Credit Hours** (Clinical)
- SOW 6604 - Medications in Social Work Practice **3 Credit Hours** (Advanced Clinical)
- SOW 6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders **3 Credit Hours** (Clinical)
- SOW 6610 - Clinical Practice with Military and Veteran Families or Groups **3 Credit Hours** (Clinical)
- SOW 6635 - Social Work Practice in Schools **3 Credit Hours** (Clinical)
- SOW 6644 - Interventions with Older Adults and Their Families **3 Credit Hours** (Clinical)
- SOW 6652 - Child Welfare Services **3 Credit Hours** (Clinical)
- SOW 6655 - Child Abuse: Treatment and Prevention **3 Credit Hours** (Clinical)
- SOW 6670 - Clinical Social Work Practice with LGBTQ+ **3 Credit Hours** (Clinical)
- SOW 6712 - Clinical Social Work Practice with Substance Addictions **3 Credit Hours** (Clinical)
- SOW 6713 - Prevention and Treatment of Adolescent Substance Use and Misuse **3 Credit Hours** (Clinical)
- SOW 6726 - Social Work Practice with Children from Birth to Age Five and their Families **3 Credit Hours** (Clinical)
- SOW 6727 - Core Concepts of Child and Adolescent Trauma **3 Credit Hours** (Clinical)
- SOW 6735 - Documentation Skills for Helping Professionals **3 Credit Hours** (Clinical)
- SOW 6756 - Forensic Social Work **3 Credit Hours** (Clinical)
- SOW 6806 - Behavioral Health Skills for Clinical Social Workers **3 Credit Hours** (Advanced Clinical)
- SOW 6846 - Spirituality in Clinical Social Work Practice **3 Credit Hours** (Clinical)

Field Experience: 14 Credit Hours

- Generalist Field Education and Integrative Seminars **6 Credit Hours**
- Clinical Field Education and Integrative Seminars **8 Credit Hours**

Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Generalist MSW students complete a minimum of 400 hours in the field; clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar.

Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements.

Many social work agencies have students complete background checks, including formal background checks, law enforcement fingerprinting, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made.

The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Required Sequence of Curriculum

First Semester (Fall)

- SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- SOW 5132 - Diverse Client Populations **3 Credit Hours**

Second Semester (Spring)

- SOW 5404 - Social Work Research **3 Credit Hours**
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice **3 Credit Hours**

Third Semester (Summer)

- SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**
- SOW Elective (Clinical or Non-Clinical)

Fourth Semester (Fall)

- SOW 5306 - Social Work Practice II: Intervention Approaches **3 Credit Hours**
- SOW 5235 - Social Welfare Policies and Services **3 Credit Hours**
- SOW 5565 - Part-Time MSW Generalist Field Integrative Seminar I **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 1 credit hour

Fifth Semester (Spring)

- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 1 credit hour
- SOW 5566 - Part-Time MSW Generalist Field Integrative Seminar II **1 Credit Hours**
- SOW Clinical Elective

Sixth Semester (Summer)

- SOW 5567 - Part-Time MSW Generalist Field Integrative Seminar III **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**
Take 1 credit hour
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**
- SOW 6123 - Psychosocial Pathology **3 Credit Hours**

Seventh Semester (Fall)

- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 2 credit hours

Eighth Semester (Spring)

- SOW Clinical Elective
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 1 credit hour

Ninth Semester (Summer)

- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**

- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III 1
Credit Hours
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
Take 1 credit hour

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Transfer credits will be evaluated on a case by case basis by the MSW Program Director. Students must submit syllabi and have earned a grade of "B-" or better in these courses in order for them to be evaluated for transfer credit.

Field courses taken elsewhere cannot be transferred toward satisfying the field component of the degree.

Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures. Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Director or academic adviser.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition, to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
 - **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
 - **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
 - **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
 - **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **Up-to-date résumé.**
- **Video Essay**
- **Three current letters of recommendation** that have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline. Applicants must provide a letter of recommendation from each of the following:

- **Academic:** A professor from a previously attended college/university who taught you in a course. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
- **Employment:** Either volunteer or paid employment immediate supervisor.
- **Third recommendation:** A second academic or employment-based recommendation should be submitted for the third recommendation.
- **A Professional Statement:** Applicants must answer the following questions within 3-6 pages. **Please use headings for each question.**
 - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
 - What are your social work career interests?
 - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
 - Where do you see yourself 10 years from now in the field of social work?
 - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
 - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
 - The MSW program requires students to complete a generalist (400 hours) internship and a clinical (600 hours) internship concurrent

with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.

- **Writing Sample:** Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format, and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Please note: The MSW program only accepts one application from each prospective student per academic year. Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students admitted will begin coursework in the fall semester only.

To be retained in the program, students must attend the mandatory MSW Program Orientation that takes place the week before fall classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

To be accepted into and retained in the program, students are expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Handbook-which students must read prior to beginning their plan of study. These essential functions define the minimal professional, cognitive, and behavioral abilities required for successful program completion, as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

MSW graduates from CSWE accredited programs outside of UCF who need to complete a field placement for Florida licensure (LCSW) must apply to the MSW program as a full-time or part-time second-year clinical student.

Application Deadlines

Part-Time Traditional	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Maxine McGregor, MSW, MS

Instructor, MSW Program Director

maxine.mcgregor@ucf.edu

Telephone: 407-823-3037

HS 1, Suite 233

Brandon Ruff

Admissions Specialist

brandon.ruff@ucf.edu

Telephone: 407-823-3474

HS 1, Suite 236

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu
http://finaid.ucf.edu

Sociology, Applied MA

College: Sciences

Department: Sociology

Program Websites: <https://sciences.ucf.edu/sociology/>

Graduate Program Handbook

Program Description

The Department of Sociology offers a graduate program leading to a Master of Arts degree in Applied Sociology. Beyond a curriculum appropriate for general applied sociology, the program includes a graduate track in Domestic Violence and a graduate track in Medical Sociology as well as instruction and opportunities pertaining to the study of crime and deviance; domestic violence; medical sociology; and social inequalities.

A primary focus of the program is the variety of social problems in society. Toward this objective, the program promotes the application of sociological and social psychological knowledge, principles, and research skills in a variety of organizational, community, and institutional settings. Examples of competencies in applied sociology include effective skills in program design and evaluation research; planning, feasibility and needs assessment studies; data management, analysis and presentation; and the application of general systems and social conflict theories to organizational problems, community development and planned change.

Program Tracks

- Sociology, Applied MA, Domestic Violence Track
- Sociology, Applied MA, Medical Sociology Track

Curriculum

Degree seeking students in the Applied Sociology Program may elect to follow either a thesis or a non-thesis course of study. The thesis option is typically designed for students who plan to enter doctoral

programs. The non-thesis option is more appropriate for students entering or continuing professional careers following the MA degree.

The degree of Master of Arts is conferred when students have fulfilled the requirements for either the thesis or non-thesis option. Both options require 30 hours of course work.

Students must earn a grade of "B" (3.0) or better in the program's core courses. Courses may be retaken to achieve a better grade; however, students must maintain a minimum GPA of 3.0 in their program of study.

By the end of their first year of course work in the program, students should select a permanent faculty advisor and determine their preliminary program of study, either in the thesis or nonthesis track. Students should maintain close contact with their faculty advisor in order to develop a viable program of study and avoid graduation delays.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students receive an independent learning experience in the core by completing a research study in each of the 12 hours of required courses.

- SYA 5625 - ProSeminar **3 Credit Hours** Should be taken as early as possible in the program.
- SYA 6126 - Social Theory **3 Credit Hours**
- SYA 6305 - Social Research **3 Credit Hours**
- SYA 6455 - Research Analysis **3 Credit Hours**

Elective Courses: 12 Credit Hours

Students will select a minimum of 12 credit hours of unrestricted electives in consultation with their faculty advisor. No more than 3 hours may be taken in UCF graduate programs outside the department. The department's graduate director must approve all courses taken outside the department prior to enrollment.

A listing and description of courses offered by the Department of Sociology is found in the "Courses" section.

Under special circumstances, students may enroll in a graduate-level Directed Independent Study course or a Directed Independent Research course to fulfill their nonrestricted elective course requirements. These courses, like most graduate seminars, require written research deliverables. Enrollment in these courses requires written approval from the student's advisor and graduate director. No more than 6 hours of graduate-level courses in Directed Independent

Study or Directed Independent Research may be included in a student's program of study.

Nonthesis students may substitute up to 6 hours of their elective course work by completing a graduate practicum/internship (SYA 6946). The practicum must be approved by the student's permanent adviser and the department's graduate program director.

Thesis Option: 6 Credit Hours

The thesis option requires a minimum of 6 hours of thesis credit and a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed the four required courses and their thesis committee has been approved by the department, college, and Graduate Studies.

The students' permanent faculty adviser will chair their committee, which also will include two additional graduate sociology faculty members in the department. The additional members of the thesis committee are selected in consultation with the student's permanent faculty adviser.

When a topic has been selected, students, in conjunction with their permanent adviser, will develop a thesis proposal. Copies of the proposal will be routed to members of their thesis committee and a proposal hearing scheduled. All students must pass a proposal hearing as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.

- Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires that students complete SYA 6657 - Program Design and Evaluation and 3 additional hours of SYA 6918 - Directed Research, SYA 6946 - Internship or Practicum, SYA 6909 - Research Report, or SYA 6908 - Directed Independent Studies. Both the Program Design and Evaluation course (SYA 6657) and "directed research or internship" courses require community-oriented research projects to develop research skills in sociology.

- SYA 6657 - Program Design and Evaluation **3 Credit Hours**
- SYA 6918 Directed Research **3 Credit Hours** or
- SYA 6946 Internship or Practicum **3 Credit Hours** or
- SYA 6909 Research Report **3 Credit Hours** or
- SYA 6908 Directed Independent Studies **3 Credit Hours**

Applied Project

Nonthesis students must complete an applied project. The nature and implementation of each project will be determined by the student and their advisor.

Before students may begin the applied project, they must earn a grade of "B" (3.0) or better in each of the five core courses.

An Applied Project evaluated by a three-person committee consists of:

- A 1-2 page proposal describing what the project and the final product will entail.
- A final product approved and evaluated by the committee.
- A brief statement submitted with the final product indicating how the project is sociologically grounded.

The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met.

Equipment Fee

Full-time students in the Applied Sociology MA program pay a \$39 equipment fee each semester that they are enrolled. Part-time students pay \$19.50 per semester.

Independent Learning

As with all graduate programs, independent learning is an important component in the Applied Sociology master's program. Students will demonstrate independent learning through research seminars and the thesis (thesis students only).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE scores taken within the last five years.
- Three letters of recommendation, including at least two from academic sources familiar with the applicant's academic abilities.
- A personal statement of 250-500 words identifying areas of research interest as it connected to thematic areas of UCF Sociology, faculty with whom they would like to work, and describing the applicant's academic and professional experience and goals.

The applicant's records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, and the applicant's potential for completing the degree. Note also that there is no automatic connection between acceptance as a non-degree-seeking student and acceptance into this degree-granting program. Consult the graduate program director whenever questions arise.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only.

Application Deadlines

Sociology MA, Applied	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Timothy L. Hawthorne, PhD

Graduate Director & Associate Professor of Geographic Information Systems

Department of Sociology

Timothy.Hawthorne@ucf.edu

Telephone: 407-823-4115

HPH, RM 403Q

Bridgett J. Burke

UCF Sociology Graduate Admissions Coordinator

socadmissions@ucf.edu

Telephone: 407-823-1198

HPH, RM 403J

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

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<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Sociology, Applied MA, Domestic Violence Track

College: Sciences
Department: Sociology
Program Websites: https://sciences.ucf.edu/sociology/
Graduate Program Handbook

Track Description

The Department of Sociology offers a graduate program leading to a Master of Arts degree in Applied Sociology. Beyond a curriculum appropriate for general applied sociology, the program includes a graduate track in Domestic Violence as well as instruction and opportunities pertaining to the study of crime and deviance; social inequalities; and health, families and communities. A primary focus of the program is the variety of social problems in society. Toward this objective, the program promotes the application of sociological and social psychological knowledge, principles, and research skills in a variety of organizational, community, and institutional settings. Examples of competencies in applied sociology include effective skills in program design and evaluation research; planning, feasibility and needs assessment studies; data management, analysis and presentation; and the application of general systems and social conflict theories to organizational problems, community development and planned change.

Curriculum

Degree-seeking students in the Applied Sociology program may choose either the thesis or a nonthesis course of study. Both options

require 30 hours of course work, at least half of which must be at the 6000 level or above.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Degree seeking students in the Applied Sociology Program may elect to follow either a thesis or a non-thesis course of study. The thesis option is typically designed for students who plan to enter doctoral programs. The non-thesis option is more appropriate for students entering or continuing professional careers following the MA degree.

The degree of Master of Arts is conferred when students have fulfilled the requirements for either the thesis or non-thesis option. Both options require 30 hours of course work.

Students must earn a grade of "B" (3.0) or better in the program's core courses. Courses may be retaken to achieve a better grade; however, students must maintain a minimum GPA of 3.0 in their program of study.

By the end of their first year of course work in the program, students should select a permanent faculty advisor and determine their preliminary program of study, either in the thesis or nonthesis track. Students should maintain close contact with their faculty advisor in order to develop a viable program of study and avoid graduation delays.

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

Please note that students in the nonthesis option are required to complete a research study in each of the 12 hours of required courses to provide an independent learning experience.

- SYA 5625 - ProSeminar **3 Credit Hours** Should be taken as early as possible in your program.
- SYA 6126 - Social Theory **3 Credit Hours**
- SYA 6305 - Social Research **3 Credit Hours**
- SYA 6455 - Research Analysis **3 Credit Hours**

Specialization: 6 Credit Hours

- SYP 5566 - Seminar on Domestic Violence: Theory, Research and Social Policy **3 Credit Hours**
- SYP 6563 - Reactions to Domestic Violence **3 Credit Hours**

Elective Courses: 6 Credit Hours

Choose two of the following restricted electives.

- SYA 6128 - Theoretical Criminology **3 Credit Hours**
- SYA 6657 - Program Design and Evaluation **3 Credit Hours**
- SYP 6561 - Child Abuse in Society **3 Credit Hours**
- SYP 6515 - Deviant Behavior Issues **3 Credit Hours**
- SYP 6522 - Sociological Perspectives on Victims **3 Credit Hours**
- SYP 6546 - Crime, Law, Inequality **3 Credit Hours**
- SYD 6809 - Seminar in Gender Issues **3 Credit Hours**

Thesis Option: 6 Credit Hours

The thesis option requires a minimum of 6 hours of thesis credit and a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed the four required courses and their thesis committee has been approved by the department and college.

The student's permanent faculty adviser will chair their committee, which also will include two additional graduate sociology faculty members in the department. The additional members of the thesis committee are selected in consultation with the student's permanent faculty adviser.

When a topic has been selected, students, in conjunction with their permanent adviser, will develop a thesis proposal. Copies of the proposal will be routed to members of their thesis committee and a proposal hearing scheduled. All students must pass a proposal hearing as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.

- Thesis **6 Credit Hours**

Nonthesis Option: 6 Credit Hours

The nonthesis option requires that students complete SYA 6657 - Program Design and Evaluation and 3 additional hours of elective course work in their area of specialization. The Program Design and Evaluation course (SYA 6657) requires community-oriented research projects to develop research skills in sociology.

- SYA 6657 - Program Design and Evaluation **3 Credit Hours**
- Directed Study for Applied Project **3 Credit Hours**

Applied Project

Nonthesis students must complete an applied project. The nature and implementation of each project will be determined by the student and her/his adviser.

Before students may begin the applied project, they must earn a grade of "B" (3.0) or better in each of the five core courses.

The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met.

An Applied Project evaluated by a three-person committee consists of:

- A 1-2 page proposal describing what the project and the final product will entail.
- A final product approved and evaluated by the committee.
- A brief statement submitted with the final product indicating how the project is sociologically grounded.

Equipment Fee

Full-time students in the Applied Sociology MA program pay a \$39 equipment fee each semester that they are enrolled. Part-time students pay \$19.50 per semester.

Independent Learning

As with all graduate programs, independent learning is an important component in the Applied Sociology master's program. Students will demonstrate independent learning through research seminars and the thesis (thesis students only).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE scores taken within the last five years.
- Three letters of recommendation, including at least two from academic sources familiar with the applicant's academic abilities.
- A personal statement of 250-500 words identifying areas of research interest, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and goals.
- The applicant's records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the

applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, and the applicant's potential for completing the degree. Note also that there is no automatic connection between acceptance as a non-degree-seeking student and acceptance into this degree-granting program. Consult the graduate program director whenever questions arise.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only.

Application Deadlines

Domestic Violence	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Timothy L. Hawthorne, PhD

Graduate Director & Associate Professor of Geographic Information Systems

Department of Sociology

Timothy.Hawthorne@ucf.edu

Telephone: 407-823-4115

HPH, RM 403Q

Bridgett J. Burk

Sociology Graduate Admissions Coordinator

socadmissions@ucf.edu

Telephone: 407-823-1198

HPH, RM 403J

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<https://graduate.ucf.edu/funding/>

Sociology, Applied MA, Medical Sociology Track

College: Sciences

Department: Sociology

Program Websites: <https://sciences.ucf.edu/sociology/>

Graduate Program Handbook

Track Description

The Department of Sociology offers a graduate program leading to a Master of Arts degree in Applied Sociology. Beyond a curriculum appropriate for general applied sociology, the program includes a graduate track in Medical Sociology as well as instruction and opportunities pertaining to the study of crime and deviance; domestic violence; and social inequalities.

Medical Sociology is an important subfield of Sociology that was developed and recognized in 1959 by the American Sociological Association (ASA). Medical sociology identifies the processes of health, illness, and medical care as social phenomena. The American Sociological Association identifies the following research topics under the field of medical sociology: the subjective experience of health and illness, the political, economic and environmental circumstances surrounding health and illness, the societal structures and forces that constrain the medical care system, individual responses to illness, and social movements related to health and healthcare. Having a deep understanding of how social processes work to affect an individual's health allows for many different careers. Medical sociologists use their knowledge to work for governmental and non-governmental organizations centered on health. They work for federal, state, and private health insurance plans. Medical sociologists conduct research and make policy that addresses public health problems. Many students who study medical sociology enter medical school to become clinicians and teachers of medical education. Still others enter dental school, physical therapy school, or other professional programs in the allied fields of health

and apply knowledge gained from Medical Sociology to improve their patients' lives.

Curriculum

Degree-seeking students in the Applied Sociology program may choose either the thesis or a nonthesis course of study. Both options require 30 hours of course work, at least half of which must be at the 6000 level or above.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Degree seeking students in the Applied Sociology Program may elect to follow either a thesis or a non-thesis course of study. The thesis option is typically designed for students who plan to enter doctoral programs. The non-thesis option is more appropriate for students entering or continuing professional careers following the MA degree.

The degree of Master of Arts is conferred when students have fulfilled the requirements for either the thesis or non-thesis option. Both options require 30 hours of course work.

Students must earn a grade of "B" (3.0) or better in the program's core courses. Courses may be retaken to achieve a better grade; however, students must maintain a minimum GPA of 3.0 in their program of study.

By the end of their first year of course work in the program, students should select a permanent faculty advisor and determine their preliminary program of study, either in the thesis or nonthesis track. Students should maintain close contact with their faculty advisor in order to develop a viable program of study and avoid graduation delays.

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

Please note that students in the nonthesis option are required to complete a research study in each of the 12 hours of required courses to provide an independent learning experience.

- SYA 5625 - ProSeminar **3 Credit Hours**
- SYA 6126 - Social Theory **3 Credit Hours**
- SYA 6305 - Social Research **3 Credit Hours**
- SYA 6455 - Research Analysis **3 Credit Hours**

Specialization: 6 Credit Hours

- SYO 6406 - Medical Sociology **3 Credit Hours**
- SYO 6405 - Sociology of Health and Illness **3 Credit Hours**

Elective Courses: 6 Credit Hours

Choose two of the following restricted electives.

- SYD 6363 - Social Inequalities and Reproductive Health **3 Credit Hours**
- SYP 6555 - Sociology of Alcohol and Drugs **3 Credit Hours**
- SYP 6735 - Sociology of Health and Aging **3 Credit Hours**
- SYO 6404 - Food Insecurity and Health **3 Credit Hours**
- SYO 6409 - Social Inequalities in Health **3 Credit Hours**

Thesis Option: 6 Credit Hours

The thesis option requires a thesis proposal and defense, a minimum of 6 hours of thesis credit, and a written thesis along with a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed their core required courses, they have passed their thesis proposal defense, and their thesis committee has been approved by the department and college.

The student's permanent faculty advisor will chair their committee, which also will include two additional graduate faculty members. The additional members of the thesis committee are selected in consultation with the student's permanent faculty advisor, and may include faculty from related disciplines in consultation with the faculty advisor.

When a topic has been selected, students, in conjunction with their permanent advisor, will develop a thesis proposal. Copies of the proposal will be routed to members of their thesis committee and a proposal defense will be scheduled. All students must pass a proposal defense as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.

Thesis: 6 Credit Hours

Nonthesis Option: 6 Credit Hours

The nonthesis option requires that students complete SYA 6657 - Program Design and Evaluation and 3 additional hours of elective course work in their area of specialization. The Program Design and Evaluation course (SYA 6657) requires community-oriented research projects to develop research skills in sociology.

Directed Study for Applied Project (3 Credit Hours)

- SYA 6657 - Program Design and Evaluation **3 Credit Hours**

Applied Project

Nonthesis students must complete an applied project. The nature and implementation of each project will be determined by the student and her/his adviser.

Before students may begin the applied project, they must earn a grade of "B" (3.0) or better in each of the five core courses.

An Applied Project evaluated by a three-person committee consists of:

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- A final product approved and evaluated by the committee.
- A brief statement submitted with the final product indicating how the project is sociologically grounded.

The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met.

Equipment Fee

Full-time students in the Applied Sociology MA program pay a \$39 equipment fee each semester that they are enrolled. Part-time students pay \$19.50 per semester.

Independent Learning

As with all graduate programs, independent learning is an important component in the Applied Sociology master's program. Students will demonstrate independent learning through research seminars and the thesis (thesis students only).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE scores taken within the last five years.
- Three letters of recommendation, including at least two (where possible) from academic sources familiar with the applicant's academic abilities.
- A personal statement of 250-500 words identifying areas of research interest connecting to thematic areas within the UCF Department of Sociology, faculty with whom they would like to

work, and describing the applicant's academic and professional experiences and goals.

- The applicant's records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended.

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Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only.

Application Deadlines

Medical Sociology	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

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funding.graduate.ucf.edu

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Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

finaid.ucf.edu

Spanish MA

College: Arts and Humanities	Degree: MA
Department: Modern Languages and Literatures	Option: Thesis, Nonthesis
Program Websites: http://mll.cah.ucf.edu/graduate/spanish.php	
Graduate Program Handbook	

Program Description

The master's program in Spanish is intended for those who wish to continue their study of the literature, linguistics and culture of the Spanish-speaking world at the graduate level.

The Spanish program focuses on the literature, linguistics, culture and civilization of Spain, Latin America, and Hispanics in the United States. Students in the program learn research methods, enhance language skills, and acquire a scholarly view of culture, literature, and linguistics of the Spanish-speaking world.

Curriculum

The master's degree program in Spanish has both thesis and nonthesis options. A total of 36 credit hours of coursework for the nonthesis option or 30 credit hours of coursework plus 6 credit hours of thesis (3 credit hours minimum) are required of students seeking the master's degree in Spanish. After 9-18 credit hours in the program, students are expected to select either Literature or Spanish Linguistics as their specialization.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

A minimum grade of "B" must be earned in each required course. Students will be allowed a maximum total of 6 semester hours of "C" grades in elective courses. Students are allowed to transfer up to 6 credit hours of corresponding graduate courses with the grade of "A" or "B" from an accredited university. University policies and procedures will be followed for all degree requirements. Courses are to be chosen from the following categories in accordance with the number of hours designated in each, based on the student's specialization.

Literature Specialization

- Research Methods: **3 Credit Hours**
- Spanish Linguistics: **3 Credit Hours**
- Culture and Civilization: **6 Credit Hours**
- Literature: **12 Credit Hours**
- Electives: **6 Credit Hours**
- Nonthesis Option Electives, **6 Credit Hours** OR Thesis Option, **6 Credit Hours**

Linguistics Specialization

- Research Methods: **3 Credit Hours**
- Spanish Linguistics: **12 Credit Hours**
- Culture and Civilization: **6 Credit Hours**
- Literature: **3 Credit Hours**
- Electives: **6 Credit Hours**
- Nonthesis Option Electives, **6 Credit Hours** OR Thesis Option, **6 Credit Hours**

Students must choose electives from the additional, available courses listed below in conjunction with their faculty adviser. The aim of the selections should be to complement the acquisition of knowledge in the particular area of Hispanic studies chosen. Courses must be selected so that at least one-half of the required courses are taken at the 6000 level.

All students are required to take SPW 6919 - Advanced Spanish Graduate Research, which results in a research paper that organizes and summarizes knowledge in a chosen area of study. All classes require a research paper that allows students to engage in independent learning.

Courses are delivered face to face, hybrid or online, and are conducted entirely in Spanish.

Required Courses—24 Credit Hours

Spanish Linguistics—3 Credit Hours for Literature Specialization or 12 Credit Hours for Linguistics Specialization

- SPN 5705 - Bilingualism in the US **3 Credit Hours**
- SPN 5825 - Spanish Dialectology **3 Credit Hours**
- SPN 5845 - History of the Spanish Language **3 Credit Hours**
- SPN 6805 - Spanish Morphosyntax **3 Credit Hours**

Culture and Civilization—6 Credit Hours for Literature Specialization or Linguistics Specialization

- SPN 5502 - Hispanic Culture of the United States **3 Credit Hours**
- SPN 5505 - Spanish Peninsular Culture and Civilization **3 Credit Hours**
- SPN 5506 - Spanish American Culture and Civilization **3 Credit Hours**

Literature—12 Credit Hours for Literature Specialization or 3 Credit Hours for Linguistics Specialization

* Examples of Seminar Series Topics: Don Quixote, Spanish American Literature Written by Women, Gabriel García Márquez, Memory and Identity in Modern Spanish Literature, Semantics and Pragmatics, Special Study in Spanish Linguistics

- SPW 5741 - Contemporary Spanish American Southern Cone Literature **3 Credit Hours**
- SPW 6825 - Colloquium in Don Quixote & Cervantes in the 21st Century **3 Credit Hours** * (May be repeated for credit with different topics)
- SPW 6405 - Medieval Spanish Literature **3 Credit Hours**
- SPW 6217 - Spanish American Prose I **3 Credit Hours**
- SPW 6218 - Spanish American Prose II **3 Credit Hours**
- SPW 6269 - Nineteenth Century Spanish Novel **3 Credit Hours**
- SPW 6306 - Spanish American Drama **3 Credit Hours**
- SPW 6315 - Early Modern Spanish Theatre **3 Credit Hours**
- SPW 6356 - Spanish American Poetry **3 Credit Hours**
- SPW 6485 - Contemporary Peninsular Literature **3 Credit Hours**
- SPW 6725 - The Generation of 1898 **3 Credit Hours**
- SPW 6216 - Spanish Golden Age Prose and Poetry **3 Credit Hours**
- SPW 6775 - Spanish Caribbean Prose **3 Credit Hours**

Research Methods—3 Credit Hours for Literature Specialization or Linguistics Specialization

- SPW 6919 - Advanced Spanish Graduate Research **3 Credit Hours**

Elective Courses—6 Credit Hours for Literature Specialization or Linguistics Specialization

All students in both the thesis and nonthesis options are required to take at least 6 credit hours of electives. These must be approved by your adviser.

- Electives **6 Credit Hours**

Thesis Option—6 Credit Hours for Literature Specialization or Linguistics Specialization

- SPW 6971 - Thesis Research and Thesis **6 Credit Hours**

Nonthesis Option—6 Credit Hours for Literature Specialization or Linguistics Specialization

Students in the nonthesis option must take an additional 6 credit hours of electives as approved by your adviser.

- Electives **6 Credit Hours**

Comprehensive Examination Requirements and Reading List for Literature Specialization or Linguistics Specialization

Students must pass a comprehensive examination in order to qualify for the master's degree in Spanish. This examination is based on knowledge of the literature and culture of Spain and Hispanic America and/or on concepts of linguistic theory and analysis.

Since this examination will be given toward the end of the coursework (only during fall and spring semesters), it is expected that the student will have developed an ability to analyze literature, culture, and linguistics at the graduate level. It is also expected that the responses, both written and oral, will show an excellent command of the Spanish language. The oral examination will follow the written examination and will allow students to expand more readily on particular points of culture, literature, and linguistics, and to show ability in the use of the spoken language.

If a student does not successfully pass both the written and oral comprehensive examinations, he or she may be able to retake the exams in the following semester (fall or spring). Thereafter, if the

student does not pass the examinations the second time, he/she will be removed from the program.

The Graduate Committee has developed a reading list of major Peninsular, Latin American, and Linguistics works and works by Hispanics in the U.S., with which the student must be familiar. The comprehensive examination is based on the entirety of the respective reading lists (primary and secondary areas) and the courses that the student has taken.

Independent Learning

All classes require a research paper or research project that allows students to engage in independent learning. The program also offers a thesis option.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide following:

- One official transcript (in a sealed envelope) from each college/university attended.
 - A bachelor's degree in Spanish or a related field.
 - Three letters of recommendation.
 - Writing sample written in Spanish **on a topic of literature or linguistics of the Spanish-speaking world, including Hispanics in the USA**
 - Interview with the Spanish MA Program Director.
 - Approval by the Graduate Committee of the Department of Modern Languages and Literatures.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Application information is also available at mll.cah.ucf.edu/graduate/spanish.php.

Prospective students are expected to have read widely in Hispanic literature/linguistics and to be competent in understanding, reading, and writing Spanish. They should also be familiar with the vocabularies of literary criticism and grammar.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of

this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Spanish MA	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Lisa Nalbone PhD
Associate Professor
Lisa.Nalbone@ucf.edu
Telephone: 407-823-2472
Trevor Colbourn Hall (TCH) 360F

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
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Sport Business Management MSBM

College: Business Administration	Degree: MSBM
Department: DeVos Sport Business Management	Option: Nonthesis
Program Websites: http://business.ucf.edu/devos/	

Program Description

This program is the only sport business management program emphasizing diversity, moral, ethical, and social issues in sports, as well as focusing on sports leadership while giving the students a rigorous business education. The DeVos Sport Business Management Program is ranked as one of the top five programs in America by the *Wall Street Journal*, *New York Times*, and *ESPN the Magazine*. In 2015, the Program was named the number two program in the world by *SportsBusiness International*. Students are required to perform 21 hours of service per semester for a Central Florida organization that works with underserved youth. Students will also spend a minimum of two weeks helping to rebuild homes in post-Katrina New Orleans. A major emphasis of the DeVos Program is to have our students leave understanding the power of sport to build communities in addition to learning strong business skills for a successful career in sports management.

Students in the DeVos Sport Business Management master's program gain hands-on experience in the business of sports management, work in teams with fellow students on sports business projects from conception through implementation and develop a network in the sports industry.

Graduates of the program will understand the relationship between sport and social issues, the business of sport both nationally and internationally, and how the legal system impacts sports business. They will understand and embrace the strengths and complexities of a diverse workforce and the importance of multicultural marketing as an actual component of overall business strategy and will be prepared to lead organizations to be corporate good citizens in the community. Graduates will also be able to develop and implement integrated business and marketing plans, optimize the use of the technology, and design and carry out research necessary to make successful management and business decisions.

Job opportunities for graduates in sport management include areas such as intercollegiate and professional sport, event and facilities management, corporate and international sport, and marketing. The DeVos Sport Business Management Program develops professionals who have critical sports business management knowledge and skills, a commitment to using sport to improve life in society, well-developed leadership abilities, and uncompromising ethical standards. Students in the Sport Business Management program have the opportunity to be admitted to the MBA program and receive an MBA as an additional degree. Please note that a student admitted to the MSBM program with provisional admission to the MBA program will take 13.5 hours of coursework in the first semester, 12 of which are coursework hours that count toward both the MSBM and MBA degrees. The student must earn a grade of B (3.0) or higher

in all MBA courses taken, otherwise, the student's provisional admission to the MBA program will be revoked.

Curriculum

The DeVos Sport Business Management MSBM program requires a minimum of 45 credit hours beyond the bachelor's degree. The program includes 18 credit hours of professional core courses, 24 credit hours of sport business management core courses, and 3 credit hours of an internship. This is a nonthesis program in which the internship serves as a capstone experience.

Total Credit Hours Required: 45 Credit Hours Minimum beyond the Bachelor's Degree

The two-year full-time curriculum includes the College of Business Administration's foundation core; selected required courses from the college's professional core for solid business skills and knowledge; and required sport business management courses that will create a unique knowledge base for our students.

Required Courses: 45 Credit Hours

Professional Core: 18 Credit Hours

The professional core consists of 18 credit hours of advanced course work.

- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- MAR 6466 - Strategic Supply Chain and Operations Management **3 Credit Hours**
- ACG 6425 - Managerial Accounting Analysis **3 Credit Hours**
- FIN 6406 - Strategic Financial Management **3 Credit Hours**
- ECO 6416 - Applied Business Research Tools **3 Credit Hours**
- ECO 6115 - Economic Analysis of the Firm **3 Credit Hours**

Sport Business Management Core: 24 Credit Hours

The sport business management core consists of 24 credit hours of course work in the related areas of sport.

- SPB 6506 - Moral and Ethical Issues in Sport **1.5 Credit Hours**
- SPB 6606 - Diversity and Social Issues in Sport Business Management **1.5 Credit Hours**
- SPB 6725 - Leadership in Sport **1.5 Credit Hours**
- SPB 6716C - Strategic Sport Marketing **3 Credit Hours**
- SPB 6406 - Sport Law **3 Credit Hours**

- SPB 6806 - Business of Sport Media **3 Credit Hours**
- SPB 6735 - The Global Environment of Sport **3 Credit Hours**
- SPB 6715C - Professional Selling in Sport **1.5 Credit Hours**
- SPB 6706 - Sport Analytics **3 Credit Hours**
- GEB 6156 - The Business of Hip-Hop Innovation and Entrepreneurship **3 Credit Hours**

Internship: 3 Credit Hours

An internship equivalent to three credit hours with a designated sport organization is required. It would normally be a full-time, 15-week internship taken after the completion of all academic courses. The internship is an independent learning activity that takes place in authentic settings (settings are professional sports, collegiate sports, etc.) in which students must apply, reflect upon, and refine knowledge and skills acquired in the program.

Additional Program Requirements

Any student enrolled in a College of Business Administration master's degree program who earns more than two final course grades below a B- will be dismissed from the program and retention plans will not be supported by the College of Business Administration.

MBA Option: 51 Total Credit Hours Required

If accepted into the MBA program, students must complete MAN 6721 - Applied Strategy and Business Policy 3 (3 credit hours) (**grade of B- or better is required for MAN 6721**) and MAR 6816 - Strategic Marketing Management (3 credit hours). Please note that a student admitted to the MSBM program with provisional admission to the MBA program will take 13 credit hours of coursework in the first semester, 12 of which are courses that count toward both the MSBM and MBA degrees. The student must earn a grade of B (3.0) or higher in all MBA courses taken, otherwise, the student's provisional admission to the MBA program will be revoked.

Independent Learning

All students are required to participate in an internship in professional sport settings in which students must apply, reflect upon, and refine knowledge and skills acquired throughout the curriculum.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants

must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GMAT or GRE score taken within the last five years.
- Three professional letters of recommendation.
- Essay (for details, see <https://business.ucf.edu/degree/masters-sports-business-management-msbm/>)
- Résumé.
- Video Essay
- All finalists will be required to have an in-person interview; the only exception shall be for prospective international students who will be permitted to have a Skype interview.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

We admit students based on their total package of academic success, professional and community service experience, commitment to teamwork, and other factors that show the admissions committee if the applicant is a good fit for the DeVos program.

Application Deadlines

Sport Business Management MSBM	*Fall Priority	Fall
Domestic Applicants	Jan 15	Feb 1
International Applicants	Jan 15	Jan 15
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Richard Lapchick PhD

Professor
devos@ucf.edu
Telephone: 407-823-4887
Business Administration II 205D

Jennifer Raraigh-Hopper

Assistant Director
jraraigh@ucf.edu
Telephone: 407-823-4887
BA2 302X

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Statistics and Data Science MS ♦♦

College: Sciences

Department: Statistics

Program Websites: <http://statistics.cos.ucf.edu/>

Graduate Program Handbook

Program Description

The Master of Science in Statistics and Data Science provides a sound foundation in statistical theory, statistical methods, numerical methods in statistics, and the application of computer methodology to statistical analyses. The MS is particularly suited for individuals who have completed an undergraduate program in mathematics, statistics, or computer science, but is also available to those from other disciplines who wish to develop an expertise in statistics and data science.

Program Tracks

- Statistics and Data Science MS, Data Science Track ♦♦

Curriculum

The Statistics and Data Science MS program requires a minimum of 36 credit hours beyond the bachelor's degree. The degree in Statistics and Data Science includes 21 credit hours of required courses, 15 credit hours of restricted electives, and passing a comprehensive examination.

Students must have the following background and courses completed before applying to the Statistics & Data Science MS program. These courses are: MAC 2311C: Calculus with Analytic Geometry I, MAC 2312: Calculus with Analytic Geometry II, MAC 2313: Calculus with Analytic Geometry III, MAS 3105: Matrix and Linear Algebra or MAS 3106: Linear Algebra. These pre-required courses are basic undergraduate courses from the Math department.

All MS students must have an approved **Plan of Study (POS)** developed by the student and advisor that lists the specific courses to be taken as part of the degree. Students must maintain a minimum GPA of 3.0 in their POS, as well as a "B" (3.0) in all courses completed toward the degree and since admission to the program.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 21 Credit Hours

Note: STA 6106 provides an independent learning experience for the program. It requires a research project that results in a written report or oral presentation.

- STA 5205 - Experimental Design **3 Credit Hours**
- STA 6106 - Statistical Computing I **3 Credit Hours**
- STA 6236 - Regression Analysis **3 Credit Hours**
- STA 6326 - Theoretical Statistics I **3 Credit Hours**
- STA 6327 - Theoretical Statistics II **3 Credit Hours**
- STA 6329 - Statistical Applications of Matrix Algebra **3 Credit Hours**

Select one of the following courses.

- STA 6246 - Linear Models **3 Credit Hours**
- STA 6707 - Multivariate Statistical Methods **3 Credit Hours**

Comprehensive Examination

All students must take a comprehensive written examination covering the courses STA 5205, STA 6236, STA 6326, and STA 6327. For full-time students, this examination normally will be taken just prior to the start of the second year of graduate work. Students are allowed two attempts to pass the exam. Failure to pass after the second attempt will result in removal from the program.

Independent Learning

STA 6106 provides the independent learning experience for the program. It requires a research project that results in a written report or oral presentation.

Elective Courses: 15 Credit Hours

Elective statistics courses will be selected by the student in consultation with the adviser. Certain graduate courses in computer science, mathematics, and engineering may also be selected if approved by the graduate program director.

A listing and description of graduate courses offered by the Department of Statistics and Data Science is found in the "Courses" section.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Résumé.

Applicants not qualified for regular graduate status may be initially admitted to the university in non-degree-seeking status and later admitted to regular status once all deficiencies have been eliminated, although only nine hours of graduate course work taken as a non-degree-seeking student can count toward a graduate degree.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Statistics and Data Science MS	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Edgard Maboudou, PhD
Professor
Edgard.Maboudou@ucf.edu
Telephone: 407-823-2695
TC2 201

Graduate Admissions

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Institution Codes

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UCF Student Financial Assistance

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Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Statistics and Data Science MS, Data Science Track ♦♦

College: Sciences**Department:** Statistics**Program Websites:** <http://statistics.cos.ucf.edu/>

Track Description

The Master of Science in Statistics and Data Science, Data Science track focuses on data analytics and its application to business, social, and health problems.

The Data Science track in the Statistics and Data Science MS program focuses on data analytics and its application to business, social, and health problems.

The program is particularly suited for individuals who have completed an undergraduate program in mathematics, statistics, economics, business, or other related fields, and wish to pursue a career in data science. Data scientists analyze massive data sets to uncover trends and associations, and make theoretically sound decisions on, for example, business, social, and health subjects. Data scientists have one of the most coveted jobs, as the demand for them far exceeds the existing number of qualified persons in the area. Currently, the work force in the data science industry consists mainly of individuals trained with post college education. To date, very few university degree programs exist for training students for such a large and growing industry in the United States.

Curriculum

The Data Science track in the Statistics and Data Science MS program is composed of 24 credit hours of required courses and 12 credit hours of restricted electives. Students must also pass a comprehensive written examination.

Students must have the following background and courses completed before applying to the Statistics & Data Science, Data Science track MS program. These courses are: MAC 2311C: Calculus with Analytic Geometry I, MAC 2312: Calculus with Analytic Geometry II, MAC 2313: Calculus with Analytic Geometry III, MAS 3105: Matrix and Linear Algebra or MAS 3106: Linear Algebra. These pre-required courses are basic undergraduate courses from the Math department.

All MS students must have an approved **Plan of Study (POS)** developed by the student and advisor that lists the specific courses to be taken as part of the degree. Students must maintain a minimum GPA of 3.0 in their POS, as well as a "B" (3.0) in all courses completed toward the degree and since admission to the program.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 24 Credit Hours

Note: STA 5703 and STA 6704 both require research projects that fulfill the independent learning requirement for the program.

- STA 5104 - Advanced Computer Processing of Statistical Data **3 Credit Hours**
- STA 6714 - Data Preparation **3 Credit Hours**
- STA 6238 - Logistic Regression **3 Credit Hours**
- STA 6326 - Theoretical Statistics I **3 Credit Hours**
- STA 6327 - Theoretical Statistics II **3 Credit Hours**
- STA 6236 - Regression Analysis **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 6704 - Data Mining Methodology II **3 Credit Hours**

Elective Courses: 12 Credit Hours

Select electives from the following courses. No more than one COP course can be selected.

- COP 4710 - Database Systems **3 Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems **3 Credit Hours**
- COP 6730 - Transaction Processing **3 Credit Hours**
- COP 6731 - Advanced Database Systems **3 Credit Hours**
- STA 5205 - Experimental Design **3 Credit Hours**
- STA 5505 - Categorical Data Methods **3 Credit Hours**

- STA 5825 - Stochastic Processes and Applied Probability Theory **3 Credit Hours**
- STA 6106 - Statistical Computing I **3 Credit Hours**
- STA 6226 - Sampling Theory and Applications **3 Credit Hours**
- STA 6237 - Nonlinear Regression **3 Credit Hours**
- STA 6507 - Nonparametric Statistics **3 Credit Hours**
- STA 6707 - Multivariate Statistical Methods **3 Credit Hours**
- STA 6857 - Applied Time Series Analysis **3 Credit Hours**
- STA 6705 - Data Mining Methodology III **3 Credit Hours**
- FIN 6406 - Strategic Financial Management **3 Credit Hours**

Comprehensive Examination

All students must take a comprehensive written examination covering the five courses STA 6326, STA 6327, STA 5104, STA 6714 and STA 6238. For full-time students, this examination will normally be taken just prior to the start of the second year of their graduate work. Students are allowed two attempts to pass the exam. Failure to pass after the second attempt will result in dismissal from the program.

Independent Learning

STA 5703 and STA 6704 both require research projects that fulfill the independent learning requirement for the program. Both courses require students to build models for target variables of projects with very large sets of data, write a report, and then give an oral presentation on their independent learning experiences.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Résumé.

Applicants not qualified for regular graduate status may be initially admitted to the university in non-degree-seeking status and later admitted to regular status once all deficiencies have been eliminated, although only nine hours of graduate course work taken as a non-degree-seeking student can count toward a graduate degree.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Application Deadlines

Data Science	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Edgard Maboudou, PhD
 Professor
 Edgard.Maboudou@ucf.edu
 Telephone: 407-823-2695
 TC2 201

Graduate Admissions

Anthony Tufano
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
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 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Graduate Financial Aid

UCF Student Financial Assistance

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finaid@ucf.edu
<http://finaid.ucf.edu>

Systems Engineering, MSSE ►

College: Engineering and Computer Science	De
Department: Industrial Engineering and Management Systems	Op
Program Websites: http://www.iems.ucf.edu/	

Program Description

The Master of Science in Systems Engineering (MSSE) is a fully online program that focuses on applications of systems engineering in designing, developing, integrating, and evaluating complex systems through their life cycle. This unique program is offered in response to the growing needs of the industry where systems thinking, complexity, globalization, quality, and productivity are the key business drivers.

Please note: Systems Engineering MSSE may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Systems-Engineering-MSSE.pdf>.

Curriculum

The MSSE requires 30 credit hours of courses beyond the bachelor's degree. This program offers only the non-thesis option.

This web-based online MSSE is designed to attract students with a variety of educational backgrounds and a keen interest in working as systems engineers, program/project managers, chief engineers, etc. The traditional engineer and scientist often lack preparation in the human, financial, software, and systems integration skills necessary to make project teams more productive, improve system and service quality, and promote the advancement of high technology for complex systems. Systems engineering is a practice-based discipline that focuses on developing these attributes with elements of engineering, systems, and management.

For information about the program, please contact IEMS Graduate Director Dr. Mansooreh Mollaghasemi Elshennawy (mollagha@ucf.edu).

Translating a specific design into an organizational or physical reality in the most effective manner, and with the highest quality, is the focus of the Industrial Engineering and Management Systems field. This program is tailored to meet the needs of a broad range of working professionals interested in leading systems engineering and management activities. This program was designed by industry to provide the skills needed to be successful in the defense, government, healthcare, etc., sectors that require engineers who can collect requirements, architect, and integrate human, software, and hardware elements of modern systems.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

Students with undergraduate degrees in industrial or systems engineering or other engineering degrees are encouraged to apply for admission. Graduates from science or technology curricula may apply to obtain the MS degree.

All applicants are expected to have completed the following prerequisites during their undergraduate engineering education:

- Computer programming capability. Proficiency with MS Office expected. C++, Visual BASIC, or Java recommended.
- Mathematics through Calculus II (MAC 2312 or equivalent)

- Undergraduate probability and statistics for engineers (STA 3032 or equivalent)

Required Courses—30 Credit Hours

All of the following courses are required for completion of the MSSE program.

Master's Core Courses—12 Credit Hours

- ESI 6551 - Systems Engineering **3 Credit Hours**
- ESI 6552 - Systems Architecture **3 Credit Hours**
- EIN 5140 - Project Engineering **3 Credit Hours**
- ESI 6511 - Systems Integration and Testing **3 Credit Hours**

Concentration Courses—9 Credit Hours

- ESI 6224 - Quality Management **3 Credit Hours**
- EIN 6357 - Advanced Engineering Economic Analysis **3 Credit Hours**
- ESI 6550 - Systems Thinking in Engineering **3 Credit Hours**

Elective Courses—9 Credit Hours

Simulation, Optimization and Modeling

- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EIN 6528 - Simulation Based Life Cycle Engineering **3 Credit Hours**
- EIN 6936 - Seminar in Advanced Industrial Engineering **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**
- ESI 6217 - Statistical Aspects of Digital Simulation **3 Credit Hours**
- ESI 6336 - Queueing Systems **3 Credit Hours**
- ESI 6532 - Object-Oriented Simulation **3 Credit Hours**

Management Systems

- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- EIN 6182 - Engineering Management **3 Credit Hours**
- EIN 5356 - Cost Engineering **3 Credit Hours**
- ESI 5227 - Total Quality Improvement **3 Credit Hours**

Quality and Production Systems

- ESI 6225 - Quality Design and Control **3 Credit Hours**
- EIN 6336 - Production and Inventory Control **3 Credit Hours**
- EIN 5356 - Cost Engineering **3 Credit Hours**
- ESI 5227 - Total Quality Improvement **3 Credit Hours**

Human System Integration

- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EIN 6271 - Human Reliability **3 Credit Hours**

Independent Learning

The Independent Learning requirement is met by successful completion of the research studies required in the individual courses. Systems engineering by definition is an interdisciplinary major requiring independent learning across a wide spectrum of management, technology, and traditional engineering. These research studies require that students integrate material from all the courses in their program. The Systems Integration class, which is the fourth course in the core sequence, builds prior classes and requires independent research to describe, architecture, model, and ultimately integrate and test complex products and services.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must [apply online](#). All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Resume or Curriculum Vita
- Goal statement
- The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of an MSSE. Future educational and career goals after the completion of the applicant's master study should be discussed.
- If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.
- The goal statement should be between 500 and 1,000 words.

- Two letters of recommendation
- The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only. Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Requirements

Systems Engineering MSSE	*Fall Priority	Fall	Spring
Domestic Applicants	Jan 15	Jul 1	Dec 1
International Applicants	Jan 15	Jan 15	Jul 1

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more

information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Mansoor Mollaghasemi PhD

Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Graduate Admissions

Ashley Mercado Rivera

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
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UCF Student Financial Assistance

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Taxation MST

College: Business Administration	Degree: MST
Department: Kenneth G. Dixon School of Accounting	Option: Nonthesis
Program Websites: https://business.ucf.edu/	

Program Description

NOTE: This program has been suspended and is not accepting applications effective with the Fall 2014 term.

The Master of Science in Taxation program is designed to prepare students for careers as tax professionals and tax consultants in public practice, government, and industry. The MST degree, along with appropriate prerequisite work from an undergraduate degree in accounting, satisfies the education requirements to become a licensed CPA in the state of Florida.

Faculty members in the Kenneth G. Dixon School of Accounting emphasize independent learning in various ways in all courses in the MST program. Cases and research projects that involve independent work outside the classroom are incorporated into all course work. The cases and projects are both individual and team prepared. Students are asked to do research that requires they utilize library, internet and resources other than the material provided by the professor. The results of independent research activity are presented in a written report, a case analysis, or an oral presentation. Students work to develop and enhance skills and competencies that will support them professionally throughout their careers. The approaches used in our courses encourage life-long learning.

Curriculum

The Master of Science in Taxation (MST) degree is awarded upon completion of a minimum 30 credit hours, and a final written exit exam. In the total program of study a minimum of 21 credit hours of the coursework must be completed in accounting/tax courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Faculty members in the Kenneth G. Dixon School of Accounting emphasize independent learning in various ways in all courses in the MST program. Cases and research projects that involve independent work outside the classroom are incorporated into all coursework. The cases and projects are both individual and team prepared. Students are asked to do research that requires they utilize the library, internet, and resources other than the material provided by the professor. The results of independent research activity are presented in either a written report or case analysis or oral presentation. Students work to develop and enhance skills and competencies that will support them professionally throughout their careers. The approaches used in our courses encourage students toward life-long learning.

Foundation Prerequisite Courses

The courses included in the business and accounting foundation core are listed below. An applicant with a recent undergraduate accounting degree should satisfy most of the core foundation requirements. Other recent related business coursework may partially satisfy these core requirements. The business foundation core is designed for students with a nonbusiness undergraduate degree (e.g., psychology, education, or engineering). The accounting foundation core is designed for students with an undergraduate business degree (e.g., finance, marketing, or management). All business and accounting foundation core deficiencies must be satisfied before graduate MSA coursework can be taken. Before taking any foundation courses, please have your undergraduate transcripts reviewed by the MSA/MST Program Advisor.

Business Foundation Core: 21 Credit Hours

- ACG 2021 - Financial Accounting **3 Credit Hours**
- ACG 2071 - Managerial Accounting **3 Credit Hours**
- ECO 2013 - Macroeconomics **3 Credit Hours**
- ECO 2023 - Microeconomics **3 Credit Hours**
- ECO 3401 - Quantitative Business Tools I **3 Credit Hours**
- ECO 3411 - Quantitative Business Tools II **3 Credit Hours**
- FIN 3403 - Business Finance **3 Credit Hours**

Accounting Foundation Core: 22 Credit Hours

- ACG 3131 - Intermediate Financial Accounting I **3 Credit Hours**
- ACG 3141 - Intermediate Financial Accounting II **3 Credit Hours**
- ACG 3361 - Cost Accounting I **3 Credit Hours**
- ACG 4401 - Accounting Information Systems **3 Credit Hours**
- ACG 4651 - Auditing **3 Credit Hours**
- BUL 3130 - Legal and Ethical Environment of Business **4 Credit Hours**
- TAX 4001 - Taxation of Business Entities and Transactions **3 Credit Hours**

Required Courses: 15 Credit Hours

- ACG 6636 - Advanced Auditing **3 Credit Hours**
- ACG 6805 - Accounting Theory **3 Credit Hours**
- TAX 5015 - Advanced Tax Topics **3 Credit Hours**
- TAX 6065 - Tax Research **3 Credit Hours**
- TAX 6845 - Tax Planning and Consulting **3 Credit Hours**

Elective Courses: 15 Credit Hours

Restricted Tax Elective Courses: 6 Credit Hours

- TAX 6317 - Taxation of Flow-thru Entities **3 Credit Hours**
- TAX 6527 - Multi-jurisdictional Taxation **3 Credit Hours**

Restricted Elective Courses: 9 Credit Hours

MSA students can take additional TAX courses or ACG courses as restricted electives. Most MBA courses other than ACG 6425 and BUL 6444 may be taken as restricted electives. BUL 5332 - Advanced Business Law Topics is required for UCF students with an undergraduate degree in accounting who plan to take the CPA exam. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to six hours may be selected from outside the College of Business Administration. Courses outside the College of Business Administration must be selected with the student's area of interest and/or career objectives in mind and with the approval of the program adviser.

Other Requirements

The satisfactory completion of an end-of-program comprehensive written examination is required. The MST program does not require a thesis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program need the following:

- One official transcript (in a sealed envelope) from each college/university attended.
- 3.0 GPA in upper division accounting and tax courses.
- Official, competitive GMAT score taken within the last five years.
- Résumé.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Charles Kelliher PhD
 Associate Professor
 charles.kelliher@ucf.edu
 Telephone: 407-823-5128
 BA 1 - 324

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Teacher Education MAT

College: Community Innovation and Education

Degree: MAT

Department: School of Teacher Education

Program Website: <https://ccie.ucf.edu/teachered/>

Graduate Program Handbook

Program Description

The Master of Arts in Teaching graduate program was created to allow individuals who are not certified to teach to become effective, certified teachers of secondary content areas.

The MAT program offers tracks in 10 secondary content areas: Art Education, English Education, Mathematics Education, Middle School Mathematics Education, Science Education-Biology, Science Education-Chemistry, Science Education-Physics, Science Education-Middle School, Social Science Education, and World Languages Education. Graduation from this state-approved MAT includes the successful completion of a 6-hour internship, submission of a comprehensive portfolio, and passing scores on all sections of the Florida Teacher Certification Examination. The Master of Arts in Teaching admits in summer and fall terms only.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/licensure-programs/>.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

Program Tracks

- Teacher Education MAT, Art Education Track ►
- Teacher Education MAT, English Language Arts Education with ESOL Endorsement Track
- Teacher Education MAT, Mathematics Education Track
- Teacher Education MAT, Middle School Mathematics Education Track
- Teacher Education MAT, Middle School Science Education Track
- Teacher Education MAT, Science Education-Biology Track
- Teacher Education MAT, Science Education-Chemistry Track
- Teacher Education MAT, Science Education-Physics Track
- Teacher Education MAT, Social Science Education Track
- Teacher Education MAT, World Languages Education with ESOL Endorsement Track ►

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants

must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Janet Andreasen PhD

Associate Lecturer
janet.andreasen@ucf.edu
ED 123-H

Debra McGann EdD

Lecturer
debra.mcgann@ucf.edu
ED 122C

Elsie Olan PhD

Associate Professor
elsie.olan@ucf.edu
Telephone: 407-823-5179
Education 223 N

Enrique Ortiz PhD

Associate Professor
enrique.ortiz@ucf.edu

Telephone: 407-823-5222
Education 123G

Su Gao PhD

Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

Scott Waring PhD

Professor
socscied@ucf.edu
Telephone: 407-823-1766
ED 206J

William Russell PhD

Professor
russell@ucf.edu
Telephone: 407-823-4345
Education 115J

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Teacher Education MAT, Art Education Track ►

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/k-12/art-education/	

Track Description

The Teacher Education MAT, Art Education program is a state-approved initial teacher preparation program for students seeking certification to teach Art in grades K-12, including students previously certified to teach in another field.

The Master of Arts in Teaching is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Please note: The Teacher Education MAT, Art Education may be completed fully online, although not all elective options, corequisites, or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

The Teacher Education MAT, Art Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard,

please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Art-MAT.pdf>.

Curriculum

The Teacher Education MAT, Art Education requires a minimum of 37 credit hours beyond the bachelor's degree. The program is a K-12 program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 37 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 28 Credit Hours

Core: 12 Credit Hours

*Must be taken prior to internship.

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** *
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** *

Specialization: 16 Credit Hours

- RED 5147 - Developmental Reading **3 Credit Hours**
- ARE 5359 - Teaching Art K-12 **4 Credit Hours**
- ARE 6905 - Research Trends in Art Education **3 Credit Hours**
- ARE 5251 - Art for Exceptionalities **3 Credit Hours**

- ARE 6195 - Teaching Art Appreciation with Interdisciplinary Strategies **3 Credit Hours**

Internship: 6 Credit Hours

- ARE 6946 - Graduate Internship (**6 Credit Hours** taken over two semesters**)

**The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education **1-3 Credit Hours**

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of art course work to be prepared to take the subject area exam in Art for grades K-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via™ by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- UPDATE: In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted on or after July 1, 2015, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

**FTCE GKT SUBTEST GRE SUBTEST MINIMUM GRE SCORE
REQUIRED TO SUBSTITUTE FOR GK SUBTEST**

GK Writing Subtest (Essay) GRE Analytical Writing A combined score of 4 out of 6

GK English Language Subtest Skills GRE Verbal Reasoning A scaled score of 151

GK Reading Subtest GRE Verbal Reasoning A scaled score of 151

GK Mathematics Subtest GRE Quantitative Reasoning A scaled score of 147

- NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process. Courses used to gain initial state certification may not be transferred into an MEd program.

Application Deadlines

Art Education	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Debra McGann EdD

Lecturer

debra.mcgann@ucf.edu

ED 122C

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

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<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

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finaid@ucf.edu
<http://finaid.ucf.edu>

Teacher Education MAT, English Language Arts Education with ESOL Endorsement Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/english-language-arts-education/	

Track Description

The Teacher Education MAT, English Language Arts Education with ESOL Endorsement program is a state-approved initial teacher preparation program for students seeking certification to teach English in grades 6-12, including students previously certified to teach in another field. The Teacher Education MAT, English Language Arts Education with ESOL Endorsement Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-English-Language-w-ESOL-MAT.pdf>.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Curriculum

The Teacher Education MAT, English Language Arts Education with ESOL Endorsement program requires a minimum of 42 credit hours beyond the bachelor's degree that includes ESOL endorsement and the option of adding Reading K-12 endorsement. The program is a

secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All key assignments are critical components of learning since they are the primary means of assessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 33 Credit Hours

Core: 12 Credit Hours

*Must be taken in the first semester in the program.

**Must be taken prior to internship.

- ESE 6001 Orientation for Teacher Education*
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** **
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**

Specialization: 21 Credit Hours

- LAE 6637 - Research in Teaching English **3 Credit Hours**
- LAE 5338 - Teaching Writing in Middle and High School **3 Credit Hours**
- LAE 5346 - Methods of Teaching English Language Arts **3 Credit Hours**
- LAE 5465 - Literature for Adolescents **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
Choose One:
- LAE 5369 - Literacy Strategies in a Digital Age for Middle and High School **3 Credit Hours** or
- RED 5147 - Developmental Reading **3 Credit Hours**

Choose one:

- ESE 6036 - Contemporary Issues in Secondary Education 3 **Credit Hours** OR
- ESE 6256 - Critical Issues in Secondary Education 1-3 **Credit Hours**

Internship: 6 Credit Hours

- LAE 6946 - Graduate Internship (**6 Credit Hours** taken over two semesters***)
***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. On the job internships must be completed over one academic year. Traditional 6-credit internships are completed in spring semester only.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 prior to first semester internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical and Field Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education 1-3 **Credit Hours**

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Students are recommended to have 30 credit hours of English course work to be prepared to take the subject area exam in English for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

- Pass all applicable sections of the Florida Teacher Certification Examination.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- **UPDATE:** In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT SUBTEST	GRE SUBTEST	MINIMUM GRE SCORE R SUBSTITUTE FOR GK
GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151
GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

- NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's admission process.

Application Deadlines

English Language Arts Education with ESOL Endorsement	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Elsie Olan PhD

Assistant Professor
elsie.olan@ucf.edu
Telephone: 407-823-5179
Education 223 N

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
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Millican Hall 120

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Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Teacher Education MAT, Mathematics Education Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/math-education/	

Track Description

The Teacher Education MAT, Mathematics Education program is a state-approved initial teacher preparation program for students seeking certification to teach Mathematics in grades 6-12, including students previously certified to teach in another field. The Teacher Education MAT, Mathematics Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Mathematics-MAT.pdf>.

A track is also available for Middle School Mathematics (grades 5-9).

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

Curriculum

The Teacher Education MAT, Mathematics Education program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

**Must be taken prior to internship

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** **
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Methods: 6 Credit Hours

- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**

- MAE 5336 - Current Methods in Secondary School Mathematics **3 Credit Hours**

Elective Courses: 12 Credit Hours

Students should take each of the following specialization courses. Course substitutions can be made with approval of adviser.

- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**

Choose Two:

- MAE 6337 - Teaching Algebra in the Secondary School **3 Credit Hours**
- MAE 6338 - Teaching Geometry in the Secondary School **3 Credit Hours**
- MAE 6656 - Using Technology in the Instruction of K-12 Mathematics **3 Credit Hours**
- MAE 6641 - Problem Solving and Critical Thinking Skills **3 Credit Hours**

Internship: 6 Credit Hours

- MAE 6946 - Graduate Internship (**6 Credit Hours** taken over two semesters***)

***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. On the job internships must be completed over one academic year. Traditional 6-credit internships are completed in spring semester only.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 prior to first semester of internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical and Field Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education 1-3

Credit Hours

Taken with final internship semester.

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of mathematics course work to be prepared to take the subject area examination in mathematics grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

One official transcript (in a sealed envelope) from each college/university attended.

Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.

UPDATE: In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT SUBTEST	GRE SUBTEST	MINIMUM GRE SCORE R SUBSTITUTE FOR GK
GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151
GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

- NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's admission process.

Application Deadlines

Mathematics Education	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Janet Andreasen PhD
Associate Lecturer
janet.andreasen@ucf.edu
ED 123H

Graduate Admissions

TBA
gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Teacher Education MAT, Middle School Mathematics Education Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/math-education/	

Track Description

The Teacher Education MAT, Middle School Mathematics Education program is a state-approved initial teacher preparation program for students seeking certification to teach mathematics in grades 5-9, including students previously certified to teach in another field. The Teacher Education MAT, Middle School Mathematics Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Middle-School-Mathematics-MAT.pdf>.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, Middle School Mathematics Education is a state-approved initial teacher preparation program for students seeking certification to teach mathematics in grades 5-9, including students previously certified to teach in another field.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see <https://ccie.ucf.edu/teachered/teach-grad/> for more information.

Curriculum

The Teacher Education MAT, Middle School Mathematics Education program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 5-9) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <https://ccie.ucf.edu/explore-via/>.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

*Must be taken in the first semester in the program.

**Must be taken prior to internship.

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** **
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Methods: 6 Credit Hours

- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- MAE 5327 - Teaching Middle School Mathematics **3 Credit Hours**

Elective Courses: 12 Credit Hours

Students should select three of the following specialization courses. Course substitutions can be made with approval of adviser.

- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**

Choose two:

- MAE 6337 - Teaching Algebra in the Secondary School **3 Credit Hours**
- MAE 6338 - Teaching Geometry in the Secondary School **3 Credit Hours**
- MAE 6641 - Problem Solving and Critical Thinking Skills **3 Credit Hours**
- MAE 6656 - Using Technology in the Instruction of K-12 Mathematics **3 Credit Hours**

Internship: 6 Credit Hours

- MAE 6946 - Graduate Internship (**6 Credit Hours** taken over two semesters***)

***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester

internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 before first semester of internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicaexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education **1-3 Credit Hours**

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 18 credit hours of mathematics course work to be prepared to take the subject area exam in Middle Grades Mathematics for grades 5-9. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment for all of the Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- **UPDATE:** In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT SUBTEST	GRE SUBTEST	MINIMUM GRE SCORE R SUBSTITUTE FOR GK
GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151

GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147
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- **NOTE:** Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process.

Application Deadlines

Middle School Mathematics Education	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Enrique Ortiz PhD

Associate Professor
enrique.ortiz@ucf.edu
Telephone: 407-823-5222
Education 123G

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

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 Fax: 407-823-5241
 finaid@ucf.edu
 http://finaid.ucf.edu

Teacher Education MAT, Middle School Science Education Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/science-education/	

Track Description

The Teacher Education MAT, Middle School Science Education program is a state-approved initial teacher preparation program for students seeking certification to teach science in grades 5-9, including students previously certified to teach in another field. This Teacher Education MAT, Middle School Science Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Middle-School-Science-MAT.pdf>.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, Middle School Science Education is a state-approved initial teacher preparation program for students seeking certification to teach science in grades 5-9, including students previously certified to teach in another field.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see <https://ccie.ucf.edu/teachered/teach-grad/> for more information.

Curriculum

The Teacher Education MAT, Middle School Science Education program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 5-9) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <https://ccie.ucf.edu/explore-via/>.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 39 Credit Hours

Core: 12 Credit Hours

*Must be taken in the first semester in the program.

**Must be taken prior to internship.

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** *
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Specialization: 18 Credit Hours

- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- SCE 5325 - Teaching Middle School Science **3 Credit Hours**
- ISC 6146 - Environmental Education for Educators **3 Credit Hours**
- SCE 5836 - Space and Physical Science for Educators **3 Credit Hours**
- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**

- ESE 6036 - Contemporary Issues in Secondary Education 3
Credit Hours

Internship: 6 Credit Hours

- SCE 6946 - Graduate Internship 6 Credit Hours (taken over two semesters) ***

***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 before first semester of internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education 1-3
Credit Hours

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 18 credit hours of science course work to be prepared to take the subject area exam in Middle Grades Science for grades 5-9. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- **UPDATE:** In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

FTCE GKT SUBTEST	GRE SUBTEST	MINIMUM GRE SCORE R SUBSTITUTE FOR GK
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GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151
GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

- NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process.

Application Deadlines

Middle School Science Education	*Fall Priority	Fall
Domestic Applicants		Jan 1
International Applicants		Jan 1

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website,

which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Su Gao PhD

Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Grad Fellowships

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UCF Student Financial Assistance

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Teacher Education MAT, Science Education-Biology Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/science-education/	

Track Description

The Teacher Education MAT, Science Education-Biology program is a state-approved initial teacher preparation program for students seeking certification to teach Biology in grades 6-12, including students previously certified to teach in another field. This Teacher Education MAT, Science Education-Biology Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Science-Ed-Biology-MAT.pdf>.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

Curriculum

The Teacher Education MAT, Science Education, Biology program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

**Must be taken prior to internship.

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** **
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Methods: 6 Credit Hours

- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- SCE 5337 - Issues and Methods in Secondary School Science **3 Credit Hours**

Elective Courses: 12 Credit Hours

- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**

Electives approved by advisor: 6 credits

Internship: 6 Credit Hours

- SCE 6946 - Graduate Internship (**6 Credit Hours**, taken over two semesters ***)

***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 before first semester of internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education **1-3 Credit Hours**

Additional Program Requirements

Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.

Pass all required sections of the Florida Teacher Certification Examination.

Students are recommended to have 30 credit hours of science course work to be prepared to take the subject area exam in Biology for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is

important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- **UPDATE:** In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

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GK Writing Subtest (Essay)	GRE Analytical Writing	A combined score of 4 out of 6
GK English Language Subtest Skills	GRE Verbal Reasoning	A scaled score of 151
GK Reading Subtest	GRE Verbal Reasoning	A scaled score of 151
GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

• NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

• Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

• To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program without going through the university's application process.

Application Deadlines

Science Education-Biology	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Janet Andreasen, Ph.D.

Associate Lecturer
Janet.Andreasen@ucf.edu
ED 123H

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127

gradfellowship@ucf.edu

<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Teacher Education MAT, Science Education-Chemistry Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/science-education/	

Track Description

The Teacher Education MAT, Science Education - Chemistry program is a state-approved initial teacher preparation program for students seeking certification to teach Chemistry in grades 6-12, including students previously certified to teach in another field. This Teacher Education MAT, Science Education-Chemistry Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Science-Ed-Chemistry-MAT.pdf>.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and

Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

Curriculum

The Teacher Education MAT, Science Education - Chemistry program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

*Must be taken in the first semester in the program.

**Must be taken prior to internship.

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** **
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Methods: 6 Credit Hours

- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- SCE 5337 - Issues and Methods in Secondary School Science **3 Credit Hours**

Elective Courses: 12 Credit Hours

- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**

Electives approved by advisor: 6 credits

Internship: 6 Credit Hours

- SCE 6946 - Graduate Internship (**6 Credit Hours**, taken over two semesters *******)

*******The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 before first semester of internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education **1-3 Credit Hours**

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours science course work to be prepared to take the subject area exam in Chemistry for grades 6-12. If students have difficulty passing the subject area

examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- **UPDATE:** In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

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GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

• NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

• Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

• To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program without going through the university's application process.

Application Deadlines

Science Education-Chemistry	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Su Gao PhD

Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

Graduate Admissions

TBA

gradadmissions@ucf.edu
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Graduate Financial Aid

UCF Student Financial Assistance

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Telephone: 407-823-2827

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<http://finaid.ucf.edu>

Teacher Education MAT, Science Education-Physics Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/science-education/	

Track Description

The Teacher Education MAT, Science Education - Physics program is a state-approved initial teacher preparation program for students seeking certification to teach Physics in grades 6-12, including students previously certified to teach in another field. The Teacher Education MAT, Science Education-Physics Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Science-Ed-Physics-MAT.pdf>.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and

Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

Curriculum

The Teacher Education MAT, Science Education - Physics program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

*Must be taken in the first semester in the program.

**Must be taken prior to internship.

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** **
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Methods: 6 Credit Hours

- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- SCE 5337 - Issues and Methods in Secondary School Science **3 Credit Hours**

Elective Courses: 12 Credit Hours

- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**

Electives approved by advisor: 6 credits

Internship: 6 Credit Hours

- SCE 6946 - Graduate Internship (**6 Credit Hours**, taken over two semesters *******)

*******The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 before first semester of internship.
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- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education **1-3 Credit Hours** (taken twice)

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of science course work to be prepared to take the subject area exam in Physics for grades 6-12. If students have difficulty passing the subject area

examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

One official transcript (in a sealed envelope) from each college/university attended.

Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.

UPDATE: In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted **on or after July 1, 2015**, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a

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GK Mathematics Subtest	GRE Quantitative Reasoning	A scaled score of 147

- NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program without going through the university's application process.

Application Deadlines

Science Education-Physics	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Contact Info

Graduate Program

Su Gao PhD

Assistant Professor

su.gao@ucf.edu

Telephone: 407-823-4834

ED 115 F

Graduate Admissions

TBA

gradadmissions@ucf.edu

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Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

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PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

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Graduate Fellowships

Grad Fellowships

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Graduate Financial Aid

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Teacher Education MAT, Social Science Education Track

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/secondaryed/social-science-education/	

Track Description

The Teacher Education MAT, Social Science Education program is a state-approved initial teacher preparation program for students seeking certification to teach Social Science in grades 6-12, including students previously certified to teach in another field. The Teacher Education MAT, Social Science Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Social-Science-MAT.pdf>.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact

with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Curriculum

The Teacher Education MAT, Social Science Education program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

Core: 12 Credit Hours

*Must be taken in the first semester in the program.

**Must be taken prior to internship.

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- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Methods: 6 Credit Hours

- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**
- SSE 5790 - Inquiry and Instructional Analysis in Social Science Education **3 Credit Hours**

Elective Courses: 12 Credit Hours

- ESE 5344 - Managing the Secondary Classroom **3 Credit Hours**
- ESE 6036 - Contemporary Issues in Secondary Education **3 Credit Hours**
- SSE 6396 - Teaching with Primary Sources in the History Classroom **3 Credit Hours**
- SSE 6636 - Contemporary Social Science Education **3 Credit Hours**

Internship: 6 Credit Hours

- SSE 6946 - Graduate Internship (**6 Credit Hours**, taken over two semesters *******)

*******The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 before first semester of internship.
- Overall graduate GPA must be 3.0 or higher.
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- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education **1-3 Credit Hours**

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.

- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of social science course work to be prepared to take the subject area exam in Social Science for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment for all of the Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

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In addition to the general UCF graduate application requirements, applicants to this program must provide:

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Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process.

Application Deadlines

Social Science Education	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

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Contact Info

Graduate Program

Scott Waring PhD

Associate Professor
socscied@ucf.edu
Telephone: 407-823-1766
ED 206J

William Russell PhD

Associate Professor
russell@ucf.edu
Telephone: 407-823-4345
Education 115J

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Teacher Education MAT, World Languages Education with ESOL Endorsement Track ►

College: Community Innovation and Education	Degree: MAT
Department: School of Teacher Education	Option: Nonthesis
Program Website: https://ccie.ucf.edu/teachered/k-12/world-languages-education/	

Track Description

The Teacher Education MAT, World Languages Education program is an initial teacher preparation program for students seeking

certification to teach World Languages in grades K-12, including students previously certified to teach in another field. The new World Languages Education Track in the Teacher Education MAT is currently seeking Florida Department of Education state-approval to offer the degree with multiple languages options, as is already state-approved at the undergraduate level.

The Master of Arts in Teaching is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, World Languages Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-Art-MAT-June2020.pdf>.

Curriculum

The Teacher Education MAT, World Languages Education requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a K-12 program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <http://ccie.ucf.edu/explore-via/>

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 39 Credit Hours

Core: 12 Credit Hours

*Must be taken in the first fall semester in the program.

**Must be taken prior to internship.

- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours** **
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** **

Specialization: 18 Credit Hours

- FLE 5345 - Teaching World Languages in K-12 Schools **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**
- TSL 5525 - ESOL Cultural Diversity **3 Credit Hours**
- TSL 6143 - Curriculum and Instruction in Dual Language Programs **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6440 - Assessment Issues in TESOL **3 Credit Hours**

Internship: 6 Credit Hours

- FLE 6946 - Graduate Internship (**6 Credit Hours** taken over two semesters***)
 ***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring.

Students should ensure that they meet all requirements for Graduate Internship.

- Complete EDG 6415 and TSL 5085 before first semester of internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.education.ucf.edu/clinicalexp/>
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience: 3 Credit Hours

- ESE 6256 - Critical Issues in Secondary Education 1-3
Credit Hours

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination. Choose Spanish K-12 or French K-12.
- Students are recommended to have 30 credit hours of language course work (Spanish or French) to be prepared to take the subject area exam in Spanish or French for grades K-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a \$64 equipment fee each semester that they are enrolled. Part-time students pay \$32 per semester.

Independent Learning

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via™ by Watermark is required for the portfolio. In addition, an internship is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.

- Passing score on all four parts of the Florida Teacher Certification Examination/General Knowledge Test (FTCE/GKT) OR a competitive score on the Graduate Record Exam (GRE) score. This program does not require GRE for admission, but in accordance with Florida Statute 1004.4 and State Board of Education Rule 6A-5.066, admission to this graduate-level, state-approved initial teacher preparation program requires demonstrating mastery of general knowledge.
- UPDATE: In order to demonstrate mastery of general knowledge, Graduate Record Exam test administrations conducted on or after July 1, 2015, may be used as an acceptable means of demonstrating a mastery of general knowledge. A minimum passing score on a GRE subtest in an applicable general knowledge content area, as defined in the table below, will satisfy the requirement of demonstrating a mastery of general knowledge for the applicable general knowledge content area.

**FTCE GKT SUBTEST GRE SUBTEST MINIMUM GRE SCORE
REQUIRED TO SUBSTITUTE FOR GK SUBTEST**

GK Writing Subtest (Essay) GRE Analytical Writing A combined score of 4 out of 6

GK English Language Subtest Skills GRE Verbal Reasoning A scaled score of 151

GK Reading Subtest GRE Verbal Reasoning A scaled score of 151

GK Mathematics Subtest GRE Quantitative Reasoning A scaled score of 147

- NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

- To align with current student standards and, therefore, be acceptable to satisfy educator requirements, a passing score on an examination identified in state board rule must have been earned during the ten (10) years immediately preceding application and qualification for a certificate, unless otherwise stipulated in relevant statute or rule.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process. Courses used to gain initial state certification may not be transferred into an MEd program.

Application Deadlines

World Languages Education with ESOL Endorsement	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Debra McGann EdD
Lecturer
debra.mcgann@ucf.edu
ED 122C

Graduate Admissions

Christine Dabrowski
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

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PO Box 160112
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Institution Codes

GRE: 5233
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Teaching English to Speakers of Other Languages (TESOL) MA

College: Arts and Humanities	Degree: MA
Department: Modern Languages and Literatures	Option: Thesis, Nonthesis
Program Websites: https://mll.cah.ucf.edu/languages/english/	
Graduate Program Handbook	

Program Description

The Master of Arts in Teaching English to Speakers of Other Languages (TESOL) provides students a strong foundation in language acquisition, use, and pedagogy.

We offer our students a strong foundation in theory with numerous opportunities for gaining practical teaching experience and developing individual research agendas.

Our program supports study abroad opportunities with a focus on service learning in numerous countries, including Spain, Mexico, and China.

Our successful graduates have received Fulbright English Teaching Assistant scholarships, English Language Fellowships, and obtained positions teaching overseas and here in the United States. Our faculty work hard to support our students as they develop their scholarship and teaching skills in preparation for a successful career in TESOL.

Because UCF offers a PhD in Education with a specialty in TESOL, students can begin their TESOL career at the undergraduate level and continue to a terminal degree at the doctoral level here on campus. We also offer an undergraduate TEFL Certificate, a graduate TEFL Certificate, and the Florida ESOL Endorsement.

Our professors have diverse research interests and thrive on working with students to develop their professionalism in the field. Current research trends in the department include vocabulary, assessment, community engagement, Russian ESOL, and sociolinguistics.

This graduate program is proud to partner with the Peace Corps Paul D. Coverdell Fellows Program to provide returning volunteers an opportunity to expand their education.

Curriculum

The Teaching English to Speakers of Other Languages MA program requires 30-36 credit hours beyond the bachelor's degree dependent on whether students select a thesis or nonthesis option. The thesis option consists of 30 credit hours that includes 24 credit hours of core courses, 3 credit hours of electives, and 3 credit hours of TSL 6971 - Thesis. The nonthesis option requires 36 semester hours and includes 24 semester hours of core courses and 12 semester hours of electives. All students, both thesis and nonthesis, must take a written final comprehensive examination covering the core TSL courses.

Total Credit Hours Required: 30-36 Credit Hours Minimum beyond the Bachelor's Degree

Most students complete the nonthesis option so that they can focus more on coursework related to specific aspects of TESOL, pedagogy, or education. The thesis option is appropriate for those students wishing to research current issues in the discipline or eventually pursue a doctoral program in TESOL or related language field. By

the end of the second semester, students wishing to pursue the thesis option should speak with the program director to seek approval and a recommendation for a thesis committee chairperson.

Our courses are focused on theory into practice and, therefore, often have a service-learning, practical, or applied project as an integral part of the curriculum. The TSL 6640 Research in Second Language is required and should be taken in the first semester of study. A final cumulative course, TSL 6642 - Issues in Second Language Acquisition, is also required. TSL 5325 will help students prepare for their comprehensive exam.

All students must take a comprehensive written examination covering the core TSL courses. This examination is normally taken in the last semester of graduate work and will be reviewed by members of the TESOL Graduate Committee. A student may take the comprehensive examination only twice, and a second examination will not be given in the same semester in which the first attempt occurred.

Required Courses—24 Credit Hours

Eight required core courses provide a strong foundation in the content of the discipline.

- TSL 5525 - ESOL Cultural Diversity **3 Credit Hours**
- TSL 6142 - Critical Approaches to ESOL **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6350 - Grammar for ESOL Teachers **3 Credit Hours**
- TSL 6440 - Assessment Issues in TESOL **3 Credit Hours**
- TSL 6642 - Issues in Second Language Acquisition **3 Credit Hours**
- TSL 6640 - Research in Second Language **3 Credit Hours**

- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**
or
- TSL 6940 - ESOL Practicum **3 Credit Hours**

Elective Courses—3 Credit Hours

All students must take at least 3 credit hours of electives. Electives provide for three distinct areas of interest: TESOL, linguistics, and multicultural education. Students take their elective credit in one of these areas depending on their interests.

TESOL

- TSL 5325 - ESOL Strategies **3 Credit Hours**
- TSL 5380 - Computers and Technology for ESOL **3 Credit Hours**
- TSL 5376 - Reading and Writing in a Second Language **3 Credit Hours**

- TSL 5940 - Issues in TEFL **3 Credit Hours**
- TSL 6252 - Sociolinguistics for ESOL **3 Credit Hours**
- TSL 5601 - Second Language Vocabulary Learning **3 Credit Hours**
- TSL 5907 - Directed Independent Study **3 credit hours**
- TSL 6374 - TESOL Listening, Speaking and Pronunciation **3 Credit Hours**

Linguistics

- LIN 5137 - Linguistics **3 Credit Hours**

Multicultural Education and Pedagogy

- EDF 6886 - Multicultural Education **3 Credit Hours**
- TSL 6940 - ESOL Practicum **3 Credit Hours**
- EDH 6305 - Teaching and Learning in Colleges and Universities **3 Credit Hours**
- SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- ENC 5276 - Theory and Practice of Tutoring Writing **3 Credit Hours**
- ENC 5705 - Approaches to Teaching College Composition **3 Credit Hours**

Research

- EDF 6401 - Statistics for Educational Data **3 Credit Hours**

Thesis Option—3 Credit Hours

- TSL 6971 - Thesis **VAR Credit Hours**

Nonthesis Option—9 Credit Hours

Nonthesis students must take an additional 9 credit hours of electives from the list of electives above.

Independent Learning

All students in the program are required to take TSL 6640 - Research in Second Language and TSL 6642 - Issues in Second Language Acquisition. Both classes have as a final project a research paper that organizes and summarizes knowledge in a chosen area of study. All classes in the program require a research paper/project allowing students to engage in independent learning.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended. Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only.
- Two letters of recommendation
- Resume
- Background questionnaire
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc.** only. For international students, the GPA calculation must equal a minimum 3.0/4.0 to be considered for admission to UCF.

Admission to the UCF MATESOL program is competitive, and meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree. We strongly recommend that applicants submit their applications and all materials well before the published due dates.

Application Deadlines

Teaching English to Speakers of Other Languages MA	*Fall Priority	Fall
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Contact Info

Graduate Program

Susan Jefferson MPA

susan.jefferson@ucf.edu

Telephone: 407-823-0087

Trevor Colbourn Hall (TCH) 358F

Kerry Purmensky

Kerry.Purmensky@ucf.edu

Telephone: 407-823-0110

Trevor Colbourn Hall (TCH) 358A

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

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 finaid@ucf.edu
<http://finaid.ucf.edu>

Theatre MA

College: Arts and Humanities	Degree: MA
Department: School of Performing Arts	Option: Thesis
Program Websites: http://performingarts.cah.ucf.edu/study/#theatregrad/	
Graduate Program Handbook	

Program Description

The Master of Arts in Theatre provides developing theatre scholars, high school teachers and community college teachers the opportunity to strengthen skills and knowledge of theatre beyond the undergraduate level.

MA students will graduate with a deeper knowledge of theatre theory, history and practice and be able to apply critical thinking through research and creative work. MA students will develop dramaturgical skills through their work on productions while also understanding how to apply theoretical frames to their own creative practice.

MA students typically pursue a variety of goals: increasing specific theatrical skills, extending theatre skills into new areas, preparing for entrance into doctoral Theatre programs, or in the case of educators, expanding their expertise and credentials. Students may be admitted on either a full-time or part-time basis.

Curriculum

The Master of Arts in Theatre program offers a rigorous course of study of 39 credit hours minimum, culminating in the writing of a scholarly thesis. Of the 39 credit hours required for the degree, 30 credit hours are required core courses with the other 9 credit hours chosen from a specified list of elective Theatre courses offered by the School.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Candidates must demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. In addition to their theoretical studies, MA students are also required to demonstrate proficiency in theatrical production. **Students are expected to select either Theatre Studies or Musical Theatre as their concentration when applying for the program. Please note that the Theatre MA, Musical Theatre concentration may be completed fully online/remotely, although not all elective options or program prerequisites may be offered online.**

Students must maintain a minimum "B" (3.00) overall Theatre GPA to continue in the major. Fifty percent of graduate course work must be at the 6000 level. Theatre courses with grades of less than "C" will not be counted toward degree requirements. Continuation in the MA program requires a positive annual evaluation. All graduate students must consult with an area adviser. All MA students must successfully complete a written thesis. The thesis proposal must be approved in advance.

Required Courses—21 Credit Hours

Core—6 Credit Hours

- THE 5910 - Research Methods in Theatre **3 Credit Hours**
- THE 5945L - Theatre Practicum I **1 Credit Hours**
- THE 5946L - Theatre Practicum II **1 Credit Hours**
- THE 6947L - Theatre Practicum III **1 Credit Hours**

Theatre Studies Concentration—15 Credit Hours

- THE 6507 - Dramatic Theory and Criticism **3 Credit Hours**

- THE 5205 - American Theatre **3 Credit Hours**
- TPA 5405 - Theatre Management **3 Credit Hours**
- THE 6086C - Careers in Professional Theatre **3 Credit Hours**
- THE 5307 - Contemporary Theatre Practice **3 Credit Hours**

Musical Theatre Concentration—15 Credit Hours

- THE 6308 - Script and Score Analysis **3 Credit Hours**
- TPP 6344 - Musical Theatre Directing **3 Credit Hours**
- TPP 5754 - Musical Theatre Voice I **2 Credit Hours**
- TPP 6755 - Musical Theatre Voice II **2 Credit Hours**
- THE 6756 - Methods of Teaching Drama **3 Credit Hours**
- TPP 5554C - Musical Theatre Dance I **2 Credit Hours**
- THE 6918 Directed Research **1 Credit Hour**
- TPP 6933 - Acting Studio V **2 Credit Hours**

Elective Courses - 9 Credit Hours

Other graduate-level courses may be permitted with school approval.

Theatre Studies Concentration

Other graduate-level courses may be permitted with school approval.

- TPA 5345C - 2D Computer Assisted Design for Theatre **2 Credit Hours**
- TPA 5346C - 3D Modeling for Theatre **2 Credit Hours**
- THE 5288 - Period Costumes, Architecture and Decor I **3 Credit Hours**
- THE 5289 - Period Costumes, Architecture and Decor II **3 Credit Hours**
- TPA 5885C - Puppetry **2 Credit Hours**
- TPP 5248C - Storytelling as a Theatrical Art Form **2 Credit Hours**
- THE 6756 - Methods of Teaching Drama **3 Credit Hours**
- THE 5385 - Dramatic Literature for Children **3 Credit Hours**
- TPA 5085C - Design Seminar for Theatre **2 Credit Hours**
- TPP 6247 - Theatre for Social Change **3 Credit Hours**

Musical Theatre Concentration

Other graduate-level courses may be permitted with school approval.

- THE 5237 - Cultural Diversity in Theatre **3 Credit Hours**
- THE 5425 - Women in Theatre **3 Credit Hours**
- THE 5215 - Global Theatre **3 Credit Hours**
- THE 6908 Independent Study **3-6 Credit Hours**
- THE 5205 - American Theatre **3 Credit Hours**

- THE 5288 - Period Costumes, Architecture and Decor I **3 Credit Hours**
- THE 5289 - Period Costumes, Architecture and Decor II **3 Credit Hours**
- THE 5307 - Contemporary Theatre Practice **3 Credit Hours**
- THE 5385 - Dramatic Literature for Children **3 Credit Hours**
- THE 6507 - Dramatic Theory and Criticism **3 Credit Hours**
- TPA 5085C - Design Seminar for Theatre **2 Credit Hours**
- TPA 5345C - 2D Computer Assisted Design for Theatre **2 Credit Hours**
- TPA 5346C - 3D Modeling for Theatre **2 Credit Hours**
- TPA 5405 - Theatre Management **3 Credit Hours**
- TPA 5885C - Puppetry **2 Credit Hours**
- TPP 5248C - Storytelling as a Theatrical Art Form **2 Credit Hours**
- TPP 6247 - Theatre for Social Change **3 Credit Hours**
- THE 6086C - Careers in Professional Theatre **3 Credit Hours**

Thesis—9 Credit Hours for Theatre Studies or Musical Theatre Concentration

- THE 6971 Thesis **9 Credit Hours**

Course Schedule—Theatre Studies Concentration

Year 1

Fall—10 Credit Hours

- THE 5910 - Research Methods in Theatre **3 Credit Hours**
- TPA 5405 - Theatre Management **3 Credit Hours** or elective
- 5000 level Theatre elective **3 Credit Hours**
- THE 5945L - Theatre Practicum I **1 Credit Hours**

Spring—10 Credit Hours

- THE 6086C - Careers in Professional Theatre **3 Credit Hours**
- THE 5205 - American Theatre **3 Credit Hours**
- THE 5307 - Contemporary Theatre Practice **3 Credit Hours**
- THE 5946L - Theatre Practicum II **1 Credit Hours**

Year 2

Fall- 10 Credit Hours

- 6000-level Theatre electives **3 Credit Hours**

- THE 6507 - Dramatic Theory and Criticism **3 Credit Hours**
- THE 6947L - Theatre Practicum III **1 Credit Hours**
- THE 6971 - Thesis **3 Credit Hours**

Spring—9 Credit Hours

- 6000-Level Theatre Elective **3 Credit Hours**
- THE 6971 Thesis **6 Credit Hours**

Course Schedule—Musical Theatre Concentration

Summer 1—10 Credit Hours

- TPP 5754 - Musical Theatre Voice I **2 Credit Hours**
- TPP 6344 - Musical Theatre Directing **3 Credit Hours**
- TPP 5554C - Musical Theatre Dance I **2 Credit Hours**
- THE 5910 - Research Methods in Theatre **3 Credit Hours**

Summer 2—7 Credit Hours

- TPP 6755 - Musical Theatre Voice II **2 Credit Hours**
- TPP 6933 - Acting Studio V **2 Credit Hours**
- THE 6756 - Methods of Teaching Drama **3 Credit Hours**

Academic Year Courses—22 Credit Hours

- THE 5945L - Theatre Practicum I **1 Credit Hours**
- THE 5946L - Theatre Practicum II **1 Credit Hours**
- THE 6947L - Theatre Practicum III **1 Credit Hours**
- THE 6918 Directed Research **1 Credit Hour**
- THE 6971 Thesis **9 Credit Hours**
- Electives **9 Credit Hours**

Elective Courses—9 Credit Hours

- THE 5237 - Cultural Diversity in Theatre **3 Credit Hours**
- THE 5425 - Women in Theatre **3 Credit Hours**
- THE 5215 - Global Theatre **3 Credit Hours**
- THE 6908 Independent Study **3-6 Credit Hours**
- THE 5205 - American Theatre **3 Credit Hours**
- THE 5288 - Period Costumes, Architecture and Decor I **3 Credit Hours**
- THE 5289 - Period Costumes, Architecture and Decor II **3 Credit Hours**
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- TPA 5405 - Theatre Management **3 Credit Hours**
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- TPP 6247 - Theatre for Social Change **3 Credit Hours**

Examination

A comprehensive Theatre exam is administered to MA majors at the end of their course work. The department allows two attempts at a comprehensive exam.

Transfer and Residency

Students without an earned master's degree can usually transfer up to 9 semester hours of credit into this program. A minimum of 30 credits must be taken at the University of Central Florida. Students must complete a residency requirement of at least two full-time consecutive semesters. A summer session may be counted toward the two consecutive semester requirement.

Independent Learning

A thesis is required.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BA or BFA in Theatre or equivalent.
- A 3.0 Theatre GPA.
- An interview is required.
- 5-10 page academic paper.
- Goals statement.
- An 8 X 10 headshot.
- Three letters of recommendation.
- Complete the general entrance prerequisites.

General Entrance Prerequisites—Students applying for entrance into the MA program must have successfully completed the

following undergraduate courses or their equivalent: Script Analysis or Play Analysis, Theatre History or Dramatic Literature, Directing I.

Each student entering the program must be approved by the Graduate Committee of the Department of Theatre in the School of Performing Arts.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Theatre MA	*Fall Priority	Fall
Domestic Applicants	Jan 15	Mar 1
International Applicants	Jan 15	Jan 15
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Earl Weaver

Associate Professor
earl.weaver@ucf.edu
Telephone: 407-823-5158
Performing Arts Center (PAC) T231

Julia Listengarten PhD

Professor
julia.listengarten@ucf.edu
Telephone: 407-823-3858
Performing Arts Center (PAC) T220

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285

Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Travel Technology and Analytics MS ►

Colleges: Engineering and Computer Science and Hospitality Management
Department: Civil, Environmental, and Construction Engineering
Program Website:

Program Description

The interdisciplinary Master of Science in Travel Technology and Analytics, offered jointly by the College of Engineering and Computer Science (Departments of Computer Science; Industrial Engineering and Management Systems; Civil, Environmental, and Construction Engineering) and the Rosen College of Hospitality Management (Departments of Tourism, Events, and Attractions; Hospitality Services), introduces graduate students to the technical aspects of big data analytics, including predictive analytics, algorithm design and models for SMART-cities, SMART-technologies and travel systems, and service systems quality engineering, in the specific context of global travel and tourism. The value and importance of such a program is demonstrated by travel and tourism and is the number one industry globally with immense economic, social, cultural and environmental impacts. Locally, the program promises to deliver significant value for the industry benefitting from a large number of visitors to the state and especially central Florida.

This powerful industry with \$8.3 trillion in economic benefits globally, which functions at the intersection of engineering and management, is being transformed by rapidly increasing technological innovations and advances and is adapting to these changes by creating new employment opportunities to match. The dynamic nature of the industry and technological advances reveal the need for a workforce with advanced skills: fluency in data science and analytics, understanding of complex travel systems, strategic problem solving, big-picture thinking, technical knowledge, and practical skills aligned with technological advances. The changing nature of travel and tourism employment reveals emerging positions in areas of online travel agencies [OTA], global distribution systems [GDS], data analytics, data architecture, predictive analytics, mobile devices, travel apps, geolocation, data visualization, data translation, programming, interface design, virtual reality [VR], augmented reality [AR], hologram technology, travel click technology, business

intelligence [BI], social media management, SMART-city design and development, and SMART-technologies and travel systems. The broader travel industry and its subsectors (transportation, lodging, and attractions) are experiencing the disruptive effects of direct and indirect distribution impacted by mobile devices, e-commerce, role of IT in distribution and dynamic pricing, and a highly perishable inventory (e.g., hotel rooms, airline seats) as well as those of artificial intelligence (AI) and machine learning and becoming increasingly more dependent on analytics as a key facet of business strategy.

Highlights:

- Academically-rich, industry-relevant interdisciplinary program
- Flexible course offerings in face-to-face, mixed and online modalities
- Offered at UCF's main campus and UCF's Rosen College of Hospitality Management campus
- Exponential industry growth locally, regionally, nationally and globally
- Cutting edge curriculum with a strong STEM foundation
- Research opportunities in both colleges
- Skills found highly desirable by industry leaders ranging from the local to the international level

Please note: Travel Technology and Analytics MS may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The program will be 30 credits (18 core/required and 12 electives). There will be no thesis requirement, however, a semester-long applied capstone project (involving industry and approved by the program director) will be required. The program will provide employable technical skills including the development of algorithms, discrete choice models, service systems quality engineering, machine learning, digital marketing, and big data management, and computer systems to extract insight from big data. The foregoing will be appropriately contextualized within the global travel industry and its trajectory toward increasing technological innovations that continue to drive the industry. The curriculum includes six (6) required

courses that ensure that students have skills in algorithms and statistical techniques for extracting information in addition to awareness of the global travel and tourism industry including. Although courses can generally be taken in any order, the first two (2) required (co-requisite) courses serve as pre-requisites for all remaining courses in the program.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Master's Degree

Required Courses—18 Credit Hours

Co-requisite Courses - HMG 6710 and HMG 6449

- HMG 6449 - Smart Travel and Tourism **3 Credit Hours**
- HMG 6710 - International Tourism Management **3 Credit Hours**
- ESI 6261 - Service System Quality Engineering **3 Credit Hours**
- TTE 6667 - Discrete Choice Modeling in Transportation **3 Credit Hours**
- TTE 6608 - Algorithms and Models for Smart Cities **3 Credit Hours**
- TTE 6910 - Travel Technology and Analytics Capstone Course **3 Credit Hours**

Electives—12 Credit Hours

Students completing the required courses will take four electives from a set of 16 courses that provide more depth and specialization.

Tourism and Hospitality Courses

Choose two courses from the list below:

- HMG 6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization **3 Credit Hours**
- HMG 6446 - Hospitality/Tourism Information Technology **3 Credit Hours**
- HMG 6466 - Applied Revenue Management Techniques in Hospitality **3 Credit Hours**
- HMG 6556 - Digital Marketing and Big Data Management for Hospitality and Tourism **3 Credit Hours**
- HMG 6565 - Social Media in Hospitality and Tourism **3 Credit Hours**
- HMG 6566 - Principles of Destination Marketing and Management **3 Credit Hours**
- HMG 6585 - Data Analysis in Hospitality and Tourism Research **3 Credit Hours**
- HMG 6738 - Tourism Industry Analysis **3 Credit Hours**

- HMG 6251 - The Management of Lodging Operations 3
Credit Hours
- HMG 6347 - Contemporary Issues in the Resort Industry 3
Credit Hours

Technology Courses

Choose two courses from the list below.

- CAP 5610 - Machine Learning 3 **Credit Hours**
- CNT 5008 - Computer Communication Networks
Architecture 3 **Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems 3
Credit Hours
- COP 6526 - Parallel and Cloud Computation 3 **Credit Hours**
- CGN 6655 - Regional Planning, Design, and Development 3
Credit Hours
- EIN 5117 - Management Information Systems I 3 **Credit
Hours**
- ESI 6224 - Quality Management 3 **Credit Hours**
- ESI 6225 - Quality Design and Control 3 **Credit Hours**

Optional Elective Courses

- STA 5703 - Data Mining Methodology I 3 **Credit Hours**
- STA 6704 - Data Mining Methodology II 3 **Credit Hours**
- STA 5206 - Statistical Analysis 3 **Credit Hours**
- STA 6714 - Data Preparation 3 **Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

A Bachelor's degree in a STEM-related discipline from an accredited institution. Depending on the degree completed, one or more prerequisite courses may be required, namely: STA 2023 (Statistical methods) and STA 3032 (Probability and Statistics for Engineers) or CAP 4630 (Artificial Intelligence).

- One official transcript (in a sealed envelope) from each college/university attended.
- A goal statement. This is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute

to the program, and how you feel the program will enhance you both personally and professionally in the future.

- Updated résumé.
- Three letters of recommendation.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program whose completed Bachelor's degree is from a college/university outside the U.S. must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are only accepted from World Education Services (WES) or Josef Silny & Associates, Inc.
- A computer-based TOEFL score of 220 or 80 on the internet-based TOEFL is required if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the official language or a university where English is the official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 6.5.

Application Deadlines

Travel Technology and Analytics MS	*Fall Priority	Fall
Domestic Applicants	Jan 15	Jul 1
International Applicants	Jan 15	Jan 15

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

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Fellowships

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information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what students should do to be considered for a fellowship.

Contact Info

Graduate Programs

Naveen Eluru PhD

Associate Professor
naveen.eluru@ucf.edu
Telephone: 407-823-4815
Engineering II - RM 301D

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

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UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285

Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Urban and Regional Planning MS

College: Community Innovation and Education

Department: School of Public Administration

Program Website: <https://ccie.ucf.edu/public-administration/urban-regional-planning/>

Graduate Program Handbook

Program Description

The Master of Science in Urban and Regional Planning program is designed to produce graduates with the analytical skills and managerial knowledge to pursue successful careers in urban, metropolitan, and regional planning and closely related fields.

Students will receive an interdisciplinary, holistic educational experience emphasizing sustainability and socially responsible planning.

Curriculum

The Master of Science in Urban and Regional Planning consists of 42 credit hours. Each student completes a core of nine courses (27 credit hours), restricted elective courses (9 credit hours), and a Capstone project (6 credit hours).

The Master of Science in Urban and Regional Planning (MSURP) program is a face-to-face program. While some courses are offered online, students admitted to the MSURP program are expected to attend face-to-face classes offered weeknights on the downtown campus. The MSURP also incorporates community-based projects into most courses. Group projects are intended to develop leadership abilities while also providing an opportunity to show students are capable of working as part of a team. Group projects promote important intellectual and social skills and help to prepare students for work in a world in which teamwork and collaboration are increasingly the norms.

Courses and credit hours used for undergraduate degrees cannot be applied toward the MSURP degree, except for Senior Scholar students. UCF undergraduate students approved to participate in

the Senior Scholar program may, with the permission of the MSURP program director, use up to 9 credit hours of graduate coursework from their bachelor's degree toward the MSURP degree. However, no undergraduate-level courses will be accepted in the MSURP program.

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 42 Credit Hours

Core: 27 Credit Hours

- PAD 5336 - Introduction to Urban Planning **3 Credit Hours**
- PAD 5337 - Urban Design **3 Credit Hours**
- PAD 5338 - Land Use and Planning Law **3 Credit Hours**
- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 6316 - Planning Methods **3 Credit Hours**
- PAD 6353 - Environmental Planning and Policy **3 Credit Hours**
- PAD 6387 - Transportation Policy **3 Credit Hours**
- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**
- PAD 5930 - Global Cities **3 Credit Hours**

Capstone or Final Product: 6 Credit Hours

The final product will be a studio experience for six credit hours.

Students work in teams for the final product in the planning degree program under the supervision of a faculty adviser. Students work closely with community partners in conducting an applied planning project. Part of the capstone experience is a presentation of their final project.

- IDS 6953 - Urban and Regional Planning Capstone I **3 Credit Hours**
- IDS 6954 - Urban and Regional Planning Capstone II **3 Credit Hours**

Planning Electives: 9 Credit Hours

- PAD 6847 - Planning Healthy Communities **3 Credit Hours**
- PAD 6920 - Visualization and Presentation Workshop for Urban Planners **3 Credit Hours**
- PAD 6397 - Managing Emergencies and Crises **3 Credit Hours**
- PAD 6254 - Economics of Land Use Planning and Development **3 Credit Hours**

- PAD 6339 - Housing Development and Planning **3 Credit Hours**
- PAD 6357 - Urban Resilience **3 Credit Hours**
- PAD 6946 - Internship **3 Credit Hours**
- URP 6711 - Sustainable Transportation Planning **3 Credit Hours**
- PAD 6826 - Urban Policy and Regional Governance **3 Credit Hours**

Internship

Students without practical administrative experience in the public sector are strongly advised to complete an internship (3 credit hours).

- PAD 6946 - Internship **3 Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone Experience courses.

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

The School of Public Administration incorporates service learning into some courses. Service learning is a teaching method that provides a means for every student to enhance his or her academic program with experiential learning opportunities. Service learning provides an opportunity for students to work with community partners by collecting and compiling data and producing quality products that will be beneficial to both students and organizations.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers, internships, and the Capstone/Final Project also contribute to the self-development of students. The planning study in the Capstone/Final Project will focus on reviewing and analyzing contemporary planning issues in order to help students acquire knowledge and skills pertaining to best practices in a variety of planning subfields. The Capstone/Final Project provides opportunities for independent learning experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Two letters of recommendation evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address your work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including experience in the field (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following: Personal background and career aspirations in urban and regional planning. Reason for pursuing graduate study in urban and regional planning, including future career goals and plans. Specific areas of the urban and regional planning of interest to the applicant.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

A limited number of students who do not meet the GPA requirements may be admitted on a provisional basis. These students must demonstrate planning experience and provide a clear statement of education goals.

Application Deadlines

Urban and Regional Planning MS	*Fall Priority	Fall	Spring
Domestic Applicants	Jan 15	Jun 1	Nov 1
International Applicants	Jan 15	Jan 15	Jul 1

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date. **Spring Domestic deadline**

Financials

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Contact Info

Graduate Program

Chia-Yuan Yu, PhD

Program Director
Telephone: 407-823-5714
Chia-Yuan.Yu@ucf.edu

Nasrin Lakhani, MNM

Graduate Adviser and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
 gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
 Telephone: 407-823-2827
 Appointment Line: 407-823-5285
 Fax: 407-823-5241
 finaid@ucf.edu
<http://finaid.ucf.edu>

Certificate

Academic Advising Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Educational Leadership and Higher Education	
Program Website: https://ccie.ucf.edu/elhe/higher-education/	

Program Description

The academic advising graduate certificate prepares professionals entering the field of academic advising to expand their knowledge of topics relevant to academic advising. Topics include learning theory, student development theory, retention theories,

diversity issues, career development, and leadership in higher education. All students will complete a practical internship. The program also provides a benefit to practicing academic advisors, administrators and faculty interested in becoming more knowledgeable in these areas.

Curriculum

To receive the certificate, students must complete the 16 credit hours of graduate course work.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—6 Credit Hours

Students will complete two required courses:

- EDH 6047 - Theories of College Student Development **3 Credit Hours**
- EDH 6105 - Retention Strategies in Colleges and Universities **3 Credit Hours**

Elective Courses—9 Credit Hours

Students will complete their choice of three electives:

- EDH 6081 - Contemporary Issues in Colleges **3 Credit Hours**
- EDH 6204 - Leadership in College Organizations **3 Credit Hours**
- EDH 6305 - Teaching and Learning in Colleges and Universities **3 Credit Hours**
- SDS 6347 - Career Development **3 Credit Hours**

Internship

Students will complete a 1 credit hour internship (15-20 hours) in an advising office or position approved by the faculty advisor.

EDH 6946 - Internship

The literature on the subject of advising and retention concludes that college student success improves when college students make progress toward educational and career goals and when they are satisfied with the quality of educational programs, services, and environment. The changing structure of the university, the addition of faculty and the growing number of program and degree offerings demand more academic advisors.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Academic Advising Graduate Certificate	*Fall Priority	Fall	Spring	S
Domestic Applicants		Jul 1	Dec 1	A
International Applicants				

*Applicants who plan to enroll full time in a degree program and who wish to be considered for assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Thomas Cox EdD
thomas.cox@ucf.edu
 ED 315Q

Graduate Admissions

TBA
gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
 UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes
 GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Adult-Gerontology Acute Care Nurse Practitioner Graduate Certificate

College: Nursing

Department: Nursing

Program Websites: <http://www.nursing.ucf.edu>

Graduate Program Handbook

Program Description

The Adult-Gerontology Acute Care Nurse Practitioner post-master's certificate prepares the advanced practice nurse to care for patients with medically complex stable and unstable acute, critical and chronic illnesses across care settings ranging from hospitals to subacute, ambulatory care, clinic and home care environments. The certificate provides a spectrum of care from disease prevention to acute and critical care management.

The curriculum prepares students for both the AGACNP board certification examination administered through the American Nurses Credentialing Center and the Acute Care Nurse Practitioner-Adult-Gerontology certification examination administered through the American Association of Critical Care Nurses. For more information on how this program may prepare you in that regard, please visit <https://nursing.ucf.edu/academics/graduate-certificates/agacnp/#faqs> and <https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Acute-Care-GC.pdf>.

Curriculum

The Adult-Gerontology Acute Care Nurse Practitioner graduate certificate prepares nurses who have already completed their graduate education for entry-level advanced practice in acute care. The program prepares graduates to enter the current healthcare system based on a strong scientific foundation for practice. The curriculum offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis, and provides analytic, critical thinking, and diagnostic reasoning skills to examine practice innovations. The certificate requires 23 credit hours beyond the master's degree.

Total Credit Hours Required: 23 Credit Hours Minimum beyond the Master's Degree

Prerequisites

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours**
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**

Required Courses—23 Credit Hours

- NGR 6210 - Adult-Gerontology Acute Care Nurse Practitioner I **3 Credit Hours**
- NGR 6230L - Diagnostics and Skills for the Critically Ill **2 Credit Hours** (120 clinical hours)
- NGR 6211 - Adult-Gerontology Acute Care Nurse Practitioner II **3 Credit Hours**
- NGR 6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6175 - Critical Care Pharmacology **3 Credit Hours**
- NGR 6212 - Adult-Gerontology Acute Care Nurse Practitioner III **3 Credit Hours**
- NGR 6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum **3 Credit Hours** (180 clinical hours)

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is open to those with MSN Degrees and are licensed as an advanced practice registered nurse, but who are not prepared as Adult-Gerontology Acute Care Nurse Practitioners. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as an advanced registered nurse practitioner in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)

- Current certification as an advanced cardiac life support (ACLS) and basic life support (BLS) provider.
- Address the following 3 items in a written essay. Responses to questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue or problem in U.S. healthcare and explore how members of the nursing profession can help address that issue or solve that problem
 - Curriculum Vitae which reflects prior education, clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
 - Requires 3 professional recommendations.
 - An interview with faculty may also be required.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for post-master's preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Adult-Gerontology Acute Care Nurse Practitioner Graduate Certificate	*Fall Priority	Fall	S
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Domestic Applicants			S
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Christopher Blackwell PhD, ARNP, ANP-BC, AGACNP-BC, CNE, FAANP

Associate Professor
christopher.blackwell@ucf.edu
Telephone: 407-823-2744
UTWR 453

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Adult-Gerontology Clinical Nurse Specialist Graduate Certificate

College: Nursing

Department: Nursing

Program Websites: <http://www.nursing.ucf.edu>

Program Description

This program has been temporarily suspended effective Spring 2014.

The post-master's Clinical Nurse Specialist Adult-Gerontology Certificate prepares nurses who already have received a master's degree in nursing for positions as Clinical Nurse Specialists.

Curriculum

The program is 18 credit hours and includes up to 540 hours of clinical practice. There are 15 credit hours of prerequisite/co-requisite requirements.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Master's Degree

Prerequisites or Co-requisites—15 Credit Hours

Students must demonstrate successful completion of the following courses:

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours**
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5720 - Organizational Dynamics **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 6874 - Nursing Environment Management **3 Credit Hours**

Required Courses—18 Credit Hours

In addition, students must successfully complete all of the following Clinical Nurse Specialist Adult-Gerontology Track courses:

- NGR 6265 - Adult/Gerontology CNS I **3 Credit Hours**
- NGR 6265L - Adult/Gerontology CNS I Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6266 - Adult/Gerontology CNS II **3 Credit Hours**
- NGR 6266L - Adult/Gerontology CNS II Clinical **3 Credit Hours** (180 clinical hours)
- NGR 6267 - Adult/Gerontology CNS III **3 Credit Hours**
- NGR 6267L - Adult/Gerontology CNS III Clinical **3 Credit Hours** (180 clinical hours)

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as a registered nurse in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1 inch margins:
 - Describe how your professional experiences have prepared you for future education in the role which is the focus of your desired track.
 - Describe your plans to alter your work, professional and/ or personal obligations in order to have the time needed for graduate course and clinical practice work.
 - Identify one significant contemporary issue/ problem in the US Health care system and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates this can include accomplishments as a student.
- An interview with faculty may also be required.

Contact Info

Graduate Program

Mary Lou Sole PhD
Professor
gradnurse@ucf.edu
Telephone: 407-823-5496
UTWR 300

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Adult-Gerontology Primary Care Nurse Practitioner Graduate Certificate

College: Nursing

Department: Nursing

Program Websites: <http://www.nursing.ucf.edu>

Graduate Program Handbook

Program Description

The post-master's Adult/Gerontology Primary Care Nurse Practitioner Graduate Certificate prepares nurses who already have received a master's degree in nursing for positions as Adult/Gerontology Primary Care Nurse Practitioners. Graduates of

this program are eligible to sit for the Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center.

Program Objectives

- Analyze social, economic, ethical, cultural, legal and political issues influencing nursing practice and health care in a global context.
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional nursing practice and the healthcare system.
- Develop and implement leadership, management and teaching strategies for the improvement of health and healthcare.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy to improve the health of communities.
- Participate in lifelong learning activities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities and nursing theories to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skills.
- Practice in an advanced nursing role.

For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Primary-Care-GC.pdf>.

Curriculum

The program is 18 credit hours and includes up to 660 hours of clinical practice. There are 12 credit hours of prerequisite requirements.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Master's Degree

Prerequisite Courses—12 Credit Hours

Students must demonstrate successful completion of the following courses:

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 clinical hours)

- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**

Required Courses—19 Credit Hours

In addition, students must successfully complete all of the following DNP Adult-Gerontology Primary Care Nurse Practitioner Track courses:

- NGR 6334 - Women's Health for APNs **2 Credit Hours**
- NGR 6201 - Adult I Primary Care **3 Credit Hours**
- NGR 6240L - Adult I Clinical for APNs **3 Credit Hours** (180 clinical hours)
- NGR 6263 - Gerontologic Care for APNs **3 Credit Hours**
- NGR 6263L - Gerontologic Care Clinical for NPs **2 Credit Hours** (120 clinical hours)
- NGR 6202L - Adult II Primary Care Clinical **3 Credit Hours**
- NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum **3 Credit Hours** (180 clinical hours)

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is open to those with MSN Degrees and are licensed as an advanced practice registered nurse, but who are not prepared as Adult-Gerontology Primary Care Nurse Practitioners. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as an advanced practice registered nurse (APRN) in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
- Describe your future career plans and how the program to which you are applying will help you achieve your career goals.

- Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
- Identify one significant contemporary issue or problem in U.S. healthcare and explore how members of the nursing profession can help address that issue or solve that problem
- Curriculum Vitae which reflects prior education, clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
- Requires 3 professional recommendations.
- An interview with faculty may also be required.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for post-master's preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Adult-Gerontology Primary Care Nurse Practitioner Graduate Certificate	*Fall Priority	Fall	S
Domestic Applicants			S
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Valerie Martinez, DNP, APRN, CPNP-PC
Clinical Assistant Professor
valerie.martinez@ucf.edu
Telephone: 407-823-5024
UTWR 459

Graduate Admissions

Jennifer Yuh
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Advanced Quantitative Methodologies in Educational and Human Sciences Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/methodology-measurement-and-analysis/	

Program Description

The Advanced Quantitative Methodologies in Educational and Human Sciences graduate certificate provides advanced coursework for admitted UCF doctoral students and post-docs from any discipline to use quantitative data to answer complex research problems with sophisticated statistical procedures.

The coursework for the Advanced Quantitative Methodologies in Educational and Human Sciences certificate is broad-based enough to be useful for anyone interested in advancing their research and quantitative statistical skills, including students in other UCF colleges and local community service providers (e.g., evaluators, data analysts).

Curriculum

The graduate certificate in Advanced Quantitative Methodologies in Educational and Human Sciences requires 12 credit hours of courses selected from a list of approved courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Master's Degree

Required Courses—12 Credit Hours

Select four of the following courses.

- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7427 - Psychometrics **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**

Application Requirements

Admission is open to those with a master's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Advanced Quantitative Methodologies in Educational and Human Sciences Graduate Certificate	*Fall Priority	Fall	S
Domestic Applicants		Jul 1	D
International Applicants			
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.			

Contact Info

Graduate Program

Stephen Sivo PhD
 Professor
 Stephen.Sivo@ucf.edu
 Telephone: 407-823-4147
 ED 222Q

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address
 UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes
 GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Aging Studies Graduate Certificate

College: Health Professions and Sciences	Degree: CRT
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Department: School of Social Work

Program Websites: <https://healthprofessions.ucf.edu/socialwork/>

Program Description

This program will not be accepting applications or enrolling new students effective Fall 2010.

The Graduate Certificate in Aging Studies is designed to prepare individuals presently employed in the aging field to increase their knowledge of the special needs of our elderly citizens.

Graduate students who are enrolled in health sciences, psychology, social work, nursing, communication sciences and disorders, or sociology, as well as in other areas, such as liberal arts, music education, physical education, or art education, will find the certificate valuable. The mission of the aging studies certificate is to prepare individuals from diverse disciplines to address the physiological, psychological, sociological, environmental, cultural, legal-ethical, and public policy dynamics inherent in the lives of older adults.

Curriculum

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Course—3 Credit Hours

- GEY 5648 - Gerontology: An Interdisciplinary Approach **3 Credit Hours**

Elective Courses—12 Credit Hours

* Physical Therapy majors only

Select four courses from the following.

- GEY 5600 - Physiology of Aging **3 Credit Hours**
- GEY 5007 - Women and Healthy Aging **3 Credit Hours**
- NGR 5690 - Interdisciplinary Care at End-of-Life **3 Credit Hours**
- PHT 6374C - Geriatric Physical Therapy **2 Credit Hours** *
- SOW 6938 - Interventions with the Elderly and Their Families **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Contact Info

Graduate Program

Shawn Lawrence PhD, LCSW

Associate Professor
shawn.lawrence@ucf.edu
Telephone: 407-823-3112
HPA 1 Suite 204

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
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ETS PPI: 5233

Anatomical Sciences Graduate Certificate

College: Health Professions and Sciences	Degree: CRT
Department: Kinesiology and Physical Therapy	
Program Websites: https://healthprofessions.ucf.edu/graduate/	

Program Description

The Anatomical Sciences Graduate Certificate provides students with coursework to become an effective anatomist in higher education fields related to health and medical sciences. The program provides a depth of understanding of the anatomical sciences and substantial hands-on experience in the gross anatomy laboratory. The amount and level of coursework offers students the rigorous training to develop distinct expertise in anatomy knowledge, dissection technique, and instruction requisite for careers as an anatomist in health or medical science education.

Curriculum

The graduate certificate in Anatomical Sciences requires a minimum of 20 credit hours of courses. This consists of four core courses (18 credit hours) plus one elective course (2-4 credit hours).

Total Credit Hours Required: 20 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 credit hours

All four courses must be completed.

- PHT 6115C - Gross Anatomy/Neuroscience I **6 Credit Hours**
- PHT 6118C - Gross Anatomy/Neuroscience II **6 Credit Hours**
- PHT 6510 - Administration of Anatomical Sciences Laboratory **3 Credit Hours**
- PHT 6119L - Seminar in Anatomical Sciences Techniques **3 Credit Hours**

Elective Courses: 2-4 credit hours

Students must choose at least one of the following courses (minimum 2 credits).

- BSC 5665 - Clinical Embryology and Congenital Malformations **3 Credit Hours**
- PET 6335 - Functional Anatomy and Kinesiology **3 Credit Hours**
- PET 6388 - Cardiovascular Physiology **3 Credit Hours**
- PHT 5125 - Clinical Kinesiology **2 Credit Hours**
- PHT 6306 - Pathology in Rehabilitation **2 Credit Hours**
- ZOO 5758C - Vertebrate Histology **4 Credit Hours**
- ANG 5525C - Human Osteology **4 Credit Hours**
- ANG 6520C - Advanced Human Osteology **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is open to those who have completed a graduate program in Physical Therapy, Occupational Therapy, or other related health or medical science-related discipline. Alternatively, those with a Bachelor's degree from a regionally accredited institution and have earned a GPA of at least 3.5 in the following pre-requisite coursework will be considered:

Pre-requisites

- Anatomy or Anatomy and Physiology (8 credits total with labs)
- Physics (8 credits total with labs)
- Biology (6 credits minimum)
- Chemistry (6 credits minimum)

Application Deadlines

Anatomical Sciences Graduate Certificate	*Fall Priority	Fall	Spring
Domestic Applicants			
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Patrick Pabian DPT
 patrick.pabian@ucf.edu
 Telephone: 407-823-3470
 HS 1 256

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Applied Behavior Analysis Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/teachered/exceptional-student-education/	

Program Description

The Graduate Certificate in Applied Behavior Analysis (ABA) is housed within the Special Education program in the School of Teacher Education. The ABA graduate certificate program is designed to provide specialized coursework for students in Education, Psychology, Communication Disorders, and related fields. The program fulfills the coursework requirements of the Behavior Analyst Certification Board®, fourth edition task list.

The ABA Certificate does not directly certify individuals in Applied Behavior Analysis; however, it can be listed as a Graduate Certificate in ABA as part of one's credentials. Completion of the certificate meets the coursework requirements for eligibility for National Board Certification as a Behavior Analyst.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Applied-Behavior-Analysis-GC.pdf>.

Curriculum

The Graduate Certificate in Applied Behavior Analysis requires 18 credit hours.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Master's Degree.

Prerequisite or Corequisite—3 Credit Hours

- EEX 6612 - Methods of Behavioral Management **3 Credit Hours**

Required Courses—18 Credit Hours

- EEX 6608 - Concepts and Principles in Applied Behavior Analysis **3 Credit Hours**
- EEX 6619 - Advanced Behavior Analysis **3 Credit Hours**
- EEX 6618 - Single Case Research Methodology **3 Credit Hours**
- EEX 6668 - Radical Behaviorism **3 Credit Hours**
- EEX 6669 - Supervision and Personnel Management in Applied Behavior Analysis **3 Credit Hours**
- EEX 6747 - Ethics and Legal Issues in Applied Behavior Analysis **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution or those currently enrolled in or possessing a master's degree in education, psychology, or a related field. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline. The Applied Behavior Analysis Graduate Certificate program admits twice per year in the fall and summer terms only.

This program can only accommodate a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Individuals seeking national certification through the Behavior Analysis Certification Board (BACB) must obtain a master's degree in applied behavior analysis, education, psychology, or a related field; complete acceptable graduate coursework, complete a defined period of supervised practical experience and apply for the national board certification exam. For more information please visit the following website: <https://www.bacb.com/bcba/bcba-requirements/>.

Application Deadlines

Applied Behavior Analysis Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

Contact Info

Graduate Program

Kelly D. Schaffer

Research Associate and Associate Director Toni Jennings
 Exceptional Education Institute
 College of Community Innovation and Education
 kelly.schaffer@ucf.edu

Eleazar Vasquez

Associate Professor and Director Toni Jennings Exceptional
 Education Institute
 College of Community Innovation and Education
 eleazar.vasquez@ucf.edu
 Telephone: 407-823-6705

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Applied Operations Research Graduate Certificate ►

College: Engineering and Computer Science	Degree: CRT
Department: Industrial Engineering and Management Systems	
Program Websites: http://iems.ucf.edu/	

Program Description

This program has suspended admissions effective Fall 2020 including online.

The Graduate Certificate in Applied Operations Research prepares individuals with an overview and hands-on experience of Operations Research (OR) tools.

The Graduate Certificate in Applied Operations Research is designed to prepare individuals with an overview of Operations Research (OR) tools, develop competence in modeling programs and provide practice and hands-on experience. OR models and solution techniques provide a powerful arsenal for solving complex resource allocation and management problems. OR has been used to solve many of the scheduling, distribution, staffing and design problems in the industry. As more powerful desktop computers and software become available, the potential to apply OR models and methods to such problems will grow.

Please note: Applied Operations Research Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Applied Operations Research certificate, students complete three required courses and one elective course, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 5306 - Operations Research **3 Credit Hours**
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours**

Elective Course—3 Credit Hours

Choose one of the following three courses.

- ESI 6336 - Queueing Systems **3 Credit Hours**
- ESI 6358 - Decision Analysis **3 Credit Hours**
- ESI 6418 - Linear Programming and Extensions **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only.

Applications are accepted for the fall and spring terms only.

Application Deadlines

Applied Operations Research Graduate Certificate	*Fall Priority	Fall	S
Domestic Applicants		Jul 1	D
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Mansoorah Mollaghasemi PhD

Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Applied Photonics Graduate Certificate ► ◆

College: Optics and Photonics	Degree: CRT
Department: Optics and Photonics	
Program	
Websites: https://www.creol.ucf.edu/academics/graduate/	

Program Description

The Applied Photonics Graduate Certificate is designed to provide working professionals with knowledge and training in applied photonics to enhance their career opportunities and meet their current responsibilities.

The certificate program compliments their technical backgrounds in science and engineering with the basic principles and applications of photonics engineering in fiber communication systems, lasers, medicine, and aerospace and defense photonics.

Please note: Applied Photonics Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/licensure-programs/>.

Curriculum

For the Applied Photonics certificate, students complete two required courses and two elective courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

- OSE 5414 - Fundamentals of Optoelectronic Devices **3 Credit Hours**
- OSE 6111 - Optical Wave Propagation **3 Credit Hours**

Elective Courses: 6 Credit Hours

Choose two of the following five courses.

- OSE 5525 - Laser Engineering **3 Credit Hours**
- OSE 6143 - Fiber Optics Communication System **3 Credit Hours**
- OSE 6421 - Integrated Photonics **3 Credit Hours**
- OSE 6474 - Fundamentals Optical Fiber Communications **3 Credit Hours**
- OSE 6536 - Semiconductor Lasers **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in electrical engineering, physics, or a closely related discipline from an accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must **apply online**. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc** only.

Applications are accepted for the fall and spring terms only.

Application Deadlines

Applied Photonics Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

M. G. "Jim" Moharam, PhD
 Professor and Interim Associate Dean
 moharam@creol.ucf.edu
 CREOL, Room 208

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
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 ETS PPI: 5233

Autism Spectrum Disorders Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/teachered/exceptional-student-education/	

Program Description

The Graduate Certificate in Autism Spectrum Disorders (ASD) provides additional training for professionals with a specific focus on knowledge, skills, and competencies for working with students with ASD.

The program is composed of four graduate courses that can be incorporated into a master's program of study in Exceptional Student Education or taken as an add-on to an undergraduate or graduate degree. Each course includes a field-based component. Students may complete field-based assignments in their own classrooms or schools if they serve students with ASD. There are also opportunities to complete these assignments at Project ASD demonstration sites.

The Autism Spectrum Disorders (ASD) graduate certificate program is state-approved by the Florida Department of Education as meeting requirements for adding an ASD endorsement to existing teacher certification (Administrative Rule 6A-4.01796). The Autism Spectrum Disorders Graduate Certificate has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Autism-Spectrum-GC.pdf>.

Please note: Autism Spectrum Disorders Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted

students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Autism Spectrum Disorders graduate certificate, students complete 12 credit hours of required courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—12 Credit Hours

*As per Graduate Certificate Program Policies, students may substitute electives as approved by the program director if they have already taken EEX 6297 and EEX 6246 in the Severe or Profound Disabilities Certificate.

- EEX 6246 - Nature of Autism: Theory and Educational Practice **3 Credit Hours**
- SPA 6437 - Communication Foundations and Assistive/Instruct Technology for Communication **3 Credit Hours**
- EEX 6297 - Assessment, Diagnosis, and Curriculum Prescriptions for Students with Autism **3 Credit Hours**
- EEX 6612 - Methods of Behavioral Management **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Autism Spectrum Disorders Graduate Certificate	*Fall Priority	Fall	S
Domestic Applicants		Jul 1	D
International Applicants			
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.			

Contact Info

Graduate Program

Kelly D. Schaffer, PhD

Research Associate and Associate Director Toni Jennings
 Exceptional Education Institute
 kelly.schaffer@ucf.edu

Eleazar Vasquez, PhD

Associate Professor and Director Toni Jennings Exceptional
 Education Institute
 eleazar.vasquez@ucf.edu
 Telephone: 407-823-6705
 ED 315F

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Career Counseling Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Counselor Education and School Psychology	
Program Website: https://ccie.ucf.edu/cesp/counseled/	

Program Description

The Graduate Certificate in Career Counseling is housed within the Counselor Education Program in the College of Community Innovation and Education. The certificate program is designed to provide advanced training to students in the Counselor Education program and for practicing counselors, therapists, student advisors and career coaches who want to provide career counseling or consultation services.

The certificate requires the completion of three graduate courses addressing foundations, theories, assessment, techniques, and applications of career counseling and development. SDS 6347 - Career Development and SDS 6622 - Career and College Readiness in Schools PK-12 are both prerequisites for the final capstone course, SDS 6308 - Applied Practice in Career Services. The fourth course is a graduate-level specialization elective in a specific academic discipline that can be taken at any point within the career certificate program.

Curriculum

The Graduate Certificate in Career Counseling requires 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- SDS 6347 - Career Development **3 Credit Hours**
- SDS 6622 - Career and College Readiness in Schools PK-12 **3 Credit Hours**
- SDS 6308 - Applied Practice in Career Services **3 Credit Hours**

Elective Course: 3 Credit Hours

Students may choose to specialize in a specific academic discipline or tailor their own areas of concentration.

- EDH 6635 - Organization and Administration of Higher Education **3 Credit Hours**
- MHS 6020 - Mental Health Care Systems **3 Credit Hours**
- MAN 6305 - Human Resources Management **3 Credit Hours**
- SDS 6620 - Coordination of Comprehensive Professional School Counseling Programs **3 Credit Hours**
- SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**
- EDH 6081 - Contemporary Issues in Colleges **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis.

Application Deadlines

Career Counseling Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Stacy VanHorn PhD
 counsel@ucf.edu
 Telephone: 407-823-2401
 ED 322M

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Clinical Nurse Leader Graduate Certificate

College: Nursing

Department: Nursing

Program Websites: <http://www.nursing.ucf.edu/>

Program Description

This program has been temporarily suspended effective Fall 2013.

The Clinical Nurse Leader Graduate Certificate prepares nurses who have a master's degree in nursing for positions as Clinical Nurse Leaders. Clinical Nurse Leaders are advanced educated nurses who function as clinical experts at the unit-based level.

Curriculum

The Clinical Nurse Leader certificate curriculum consists of advanced clinical courses as well as advanced clinical nursing leadership. The program requires 12 credit hours. There are 18 credit hours of prerequisite/corequisite requirements. Students gain 480 hours of clinical practice. Each 1 credit hour clinical course requires 60 hours of supervised clinical experience. The Internship/Residency requires 300 clinical hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Master's Degree

Prerequisite/Corequisite Courses: 18 Credit Hours

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours**
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 5720 - Organizational Dynamics **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**
- NGR 6722 - Financial Management and Resource Development **3 Credit Hours**

Required Courses: 12 Credit Hours

- NGR 6105 - Management of Symptoms and Outcomes of Disease **3 Credit Hours**
- NGR 6773L - CNL Residency **3 Credit Hours** (300 clinical hours)
- NGR 6775L - CNL Resources and Outcomes **1 Credit Hours** (60 clinical hours)
- NGR 6777L - CNL Quality and Safety **1 Credit Hours** (60 clinical hours)
- NGR 6776L - CNL Advocacy and Education **1 Credit Hours** (60 clinical hours)
- NGR 6874 - Nursing Environment Management **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Contact Info

Graduate Program

Mary Lou Sole PhD
Professor

gradnurse@ucf.edu
Telephone: 407-823-5496
UTWR 300

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Cognitive Sciences Graduate Certificate

College: Arts and Humanities	Degree: CRT
Department: Philosophy	
Program Websites: https://philosophy.cah.ucf.edu/program/cognitive-sciences-grad-certifica	

Program Description

The Cognitive Sciences Graduate Certificate program focuses on the interdisciplinary study of cognitive systems. It integrates a diverse range of approaches to examining cognitive processes, investigating the structures that support and scaffold cognition, attempting to understand, model and construct cognitive systems, and philosophically examining the foundations and applications of the cognitive sciences. It also includes applications of these investigations to many areas of human endeavor, including technology design, communication, training, education and clinical settings.

The interdisciplinary program is founded on the belief that cognition is a complex range of phenomena that cannot be well understood from any single disciplinary perspective. Thus, the program includes core interdisciplinary courses on the Cognitive Sciences, as well as drawing from related courses from many areas including Communication Sciences and Disorders, Education, Engineering and Computer Science, Linguistics, Neuroscience, Philosophy and Psychology.

The Graduate Certificate in Cognitive Sciences is designed for students from diverse backgrounds who wish to: (i) deepen and broaden knowledge gained in a related bachelor's degree, (ii) prepare for master's or PhD programs in the cognitive sciences, or (iii) complement current study in UCF graduate programs related to the cognitive sciences.

Curriculum

The Cognitive Sciences Graduate Certificate requires 18 credit hours of courses, including 6 credit hours of required courses and 12 credit hours of elective courses selected from the approved list.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

The program recommends that students complete these courses in the first year of the certificate.

- PHI 5327 - Topics in the Cognitive Sciences **3 Credit Hours**
- PHI 5340 - Research Methods in the Cognitive Sciences **3 Credit Hours**

Elective Courses: 12 Credit Hours

Core Courses: 9 Credit Hours

Choose at least 9 credit hours of elective courses from at least three of the following four Core Areas.

Language and Communication

- COM 6046 - Interpersonal Communication **3 Credit Hours**
- LIN 5137 - Linguistics **3 Credit Hours**
- SPA 6410 - Aphasia and Related Disorders **3 Credit Hours**
- SPA 6417 - Cognitive/Communicative Disorders **3 Credit Hours**
- TSL 6252 - Sociolinguistics for ESOL **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**

Artificial Intelligence and Modeling Cognition

- CAP 5636 - Advanced Artificial Intelligence **3 Credit Hours**
- CAP 6640 - Computer Understanding of Natural Language **3 Credit Hours**
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans **3 Credit Hours**
- EEL 6878 - Modeling and Artificial Intelligence **3 Credit Hours**
- EEL 6812 - Introduction to Neural Networks **3 Credit Hours**
- EEL 6875 - Autonomous Agents **3 Credit Hours**

Philosophy

- PHI 5225 - Philosophy of Language **3 Credit Hours**
- PHI 5325 - Topics in Philosophy of Mind **3 Credit Hours**
- PHI 5328 - Philosophies of Embodiment **3 Credit Hours**
- PHI 5329 - Philosophy of Neuroscience **3 Credit Hours**

Psychology and Neuroscience

- DEP 5057 - Developmental Psychology **3 Credit Hours**
- EXP 5208 - Sensation and Perception **3 Credit Hours**
- EXP 5256 - Human Factors I **3 Credit Hours**
- EXP 6255 - Human Performance **3 Credit Hours**
- EXP 6506 - Human Cognition and Learning **3 Credit Hours**
- PSB 5005 - Physiological Psychology **3 Credit Hours**
- ZOO 5745C - Neuroanatomical Pathways and their Neurotransmitters **4 Credit Hours**
- ZOO 5748C - Clinical Neuroanatomy **5 Credit Hours**
- ZOO 5749C - Clinical Neuroscience **5 Credit Hours**

Restricted Elective Courses: 3 Credit Hours

Choose up to one elective course either from the above Core Areas or from the following list:

- CAP 5415 - Computer Vision **3 Credit Hours**
- CAP 5610 - Machine Learning **3 Credit Hours**
- CAP 6676 - Knowledge Representation **3 Credit Hours**
- COM 6467 - Studies in Persuasion **3 Credit Hours**
- EDF 6141 - Human Intelligence **3 Credit Hours**
- EEL 5874 - Expert Systems and Knowledge Engineering **3 Credit Hours**
- EGI 6305 - Theory and Development of Creativity **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**

- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- EME 6646 - Instructional Game Design for Training and Education **3 Credit Hours**
- ENC 6740 - Topics in Rhetoric and Composition **3 Credit Hours** NOTE: Where topic is appropriate; topic should be cleared in advance with the Cognitive Sciences Certificate program director.
- EXP 6257 - Human Factors II **3 Credit Hours**
- EXP 6541 - Advanced Human Computer Interaction **3 Credit Hours**
- IDS 6504 - Adult Learning **3 Credit Hours**
- IDS 7657 - Professional Collaboration Around Language Issues **3 Credit Hours**
- SOP 5059 - Advanced Social Psychology **3 Credit Hours**
- SPA 6437 - Communication Foundations and Assistive/Instruct Technology for Communication **3 Credit Hours**

Note:

It is the policy of the College of Graduate Studies not to allow course substitutions for graduate certificate programs. All elective courses listed above have been approved for inclusion by the chair or director of the relevant program. However, it is the student's responsibility to ensure that all course prerequisites are met. Students without the appropriate prerequisites to courses will need to contact the instructor to inquire about the possibility of registration.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Application Deadlines

Cognitive Sciences Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". The information provided in the link below is the best that is available to us. This information represents one year's data only, however, we hope that this information is helpful to current and prospective students, as you make your career and educational choices.

Contact Info

Graduate Program

Mason Cash PhD

Associate Professor

mason.cash@ucf.edu

Telephone: 407-823-6857

Psychology Building (PSY) 0246

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Collaborative Intervention Specialist Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/exceptional-student-education/	

Program Description

The Collaborative Intervention Specialist graduate certificate provides advanced coursework for educational leaders to use school-based and classroom instructional data to meet the instructional and intervention needs of all students, including at-risk and struggling students, beyond the typical, initial classroom instruction within a multi-tiered system of supports.

This certificate will provide an advanced, multi-disciplinary theoretical approach and applied knowledge base to experienced educators.

Coursework focuses on knowledge, skills and competencies for working with students within an intervention framework. The Collaborative Intervention Specialist certificate is multi-disciplinary and includes coursework in exceptional student education, school psychology, reading education, and math education. The graduate courses provide an opportunity for students to complete the Intervention Specialist certificate beyond the undergraduate degree. Should a student wish to earn a master's degree, the courses in the certificate could be applied to one of several Master of Education degree programs in the College of Community Innovation and Education.

Curriculum

The Intervention Specialist certificate requires four courses (12 credit hours total).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- EEX 6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education **3 Credit Hours**
- SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making **3 Credit Hours**
- SPS 5605 - Building and Improving Relationship and Emotional Intelligence **3 Credit Hours**
- EEX 6061 - Instructional Strategies Pre-K-6 **3 Credit Hours**

OR the following TWO courses in reading and mathematics interventions with the consent of advisor in lieu of SPS 5605 and EEX 6061.

- MAE 6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Collaborative Intervention Specialist Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Mary Little PhD
 Professor
 mary.little@ucf.edu
 Telephone: 407-823-3275
 ED 315J

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

College Teaching and Leadership Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Education Leadership and Higher Education	
Program Website: https://www.ucf.edu/degree/college-teaching-and-leadership-certificate/	

Program Description

The College Teaching and Leadership Graduate Certificate prepares students to become campus leaders at all organizational levels of colleges, state colleges, and universities, as well as the college-level classroom.

The certificate consists of five graduate courses that cover all facets of community college education. The courses are available completely online in a web-based format.

Please note: College Teaching and Leadership Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the College Teaching and Leadership graduate certificate, students take 15 credit hours of required courses.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

- EDH 6053 - The Community College in America **3 Credit Hours**
- EDH 6081 - Contemporary Issues in Colleges **3 Credit Hours**
- EDH 6204 - Leadership in College Organizations **3 Credit Hours**
- EDH 6215 - The College Curriculum **3 Credit Hours**
- EDH 6305 - Teaching and Learning in Colleges and Universities **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

College Teaching and Leadership Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Thomas Cox EdD
thomas.cox@ucf.edu
ED 220Q

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Computer Forensics Graduate Certificate

College: Engineering and Computer Science	Degree: CRT
Department: Computer Science	
Program Websites: http://gccf.ucf.edu/	

Program Description

The Graduate Certificate in Computer Forensics provides a unique graduate training opportunity for those who deal directly or indirectly with digital evidence.

The National Center for Forensic Science (NCFS), the School of Electrical Engineering and Computer Science, and the Department of Chemistry jointly sponsor an interdisciplinary Graduate Certificate in Computer Forensics. This web-assisted certificate program provides a unique opportunity for graduate training to professionals and paraprofessionals who deal directly or indirectly with digital evidence, including law enforcement investigators, forensic laboratory analysts, lawyers and judges, and corporate computer security specialists. In addition, the Interdisciplinary Studies Program offers a Master of Science degree in Interdisciplinary Studies with a concentration in Computer Forensics, and the recently approved

Master of Science degree in Digital Forensics provides further graduate work in digital forensics.

Program Tracks

- Computer Forensics, Out of State Cohort Track Graduate Certificate

Curriculum

The Computer Forensics certificate requires four graduate courses (12 credit hours) in forensics study.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- CHS 5504 - Topics in Forensic Science **3 Credit Hours**
- CHS 5518 - The Forensic Collection and Examination of Digital Evidence **3 Credit Hours** or
- CHS 5596 - The Forensic Expert in the Courtroom **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**

Note:

A graduate-level digital evidence course approved by the graduate program director may be used to substitute for CGS 5131 or CNT 6418.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate. Students interested in the Out of State Cohort/Track, must contact the program director, Sheau-Dong Lang, PhD, prior to applying.

Application Deadlines

Computer Forensics Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Cliff Zou PhD
Associate Professor
CZou@cs.ucf.edu
Telephone: 407-823-5015
HEC 243

Graduate Admissions

Ashley Rivera Mercado
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Computer Forensics, Out of State Cohort Track Graduate Certificate

College: Engineering and Computer Science	Degree: CRT
Department: Computer Science	
Program Websites: http://gccf.ucf.edu/	

Track Description

This program track has been temporarily suspended effective Fall 2016.

The Graduate Certificate in Computer Forensics provides a unique graduate training opportunity for those who deal directly or indirectly with digital evidence.

The National Center for Forensic Science (NCFS), the School of Electrical Engineering and Computer Science, and the Department of Chemistry jointly sponsor an interdisciplinary Graduate Certificate in Computer Forensics. This out-of-state cohort track provides online training to professionals and paraprofessionals who deal directly or indirectly with digital evidence, including law enforcement investigators, forensic laboratory analysts, lawyers and judges, and corporate computer security specialists. Students in the out-of-state cohort program pay less than half of the regular out-of-state tuition.

Curriculum

The Computer Forensics certificate requires four graduate courses (12 credit hours) in forensics study.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- CHS 5504 - Topics in Forensic Science **3 Credit Hours**
- CHS 5518 - The Forensic Collection and Examination of Digital Evidence **3 Credit Hours** or
- CHS 5596 - The Forensic Expert in the Courtroom **3 Credit Hours**
- CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems **3 Credit Hours**
- CNT 6418 - Computer Forensics II **3 Credit Hours**

Elective Courses: 3 Credit Hours

Choose one course from the following list:

- CIS 6207 - The Practice of Digital Forensics **3 Credit Hours**

- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics **3 Credit Hours**

Cost Per Credit Hour

For the Computer Forensics Cohort Certificate, the cost per credit hour is \$333.*

*Fee is subject to change.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate. Students interested in the Out of State Cohort/Track, must contact the program director, Sheau-Dong Lang, PhD, prior to applying.

Contact Info

Graduate Program

Cliff Zou PhD

Associate Professor
CZou@cs.ucf.edu
Telephone: 407-823-5015
HEC 243

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Conflict Resolution and Analysis Graduate Certificate ► ◆

College: Community Innovation and Education	Degree: CRT
Department: https://ccie.ucf.edu/legalstudies/	
Program Website: https://ccie.ucf.edu/legalstudies/programs/	

Program Description

The graduate certificate in Conflict Resolution and Analysis provides a deeper understanding of the origins and root causes of conflict. Conflict is rampant in society, ranging from personal and workplace conflicts to global conflicts. Students will learn strategies for managing and resolving interpersonal and community conflicts, which are essential in the community and workplace. This certificate will be attractive to students planning to attend law school, legal professionals, social workers, law enforcement, business professionals, and those in education, to name a few.

Please note: Conflict Resolution and Analysis Graduate Certificate may be completed online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

This program is not open to international students. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The graduate certificate in Conflict Resolution and Analysis consists of three required courses and two elective courses for a total of 15 credit hours.

Total Credit Hours Required: 15 Credit Hours

Required Courses—6 Credit Hours

Students must satisfy the prerequisites for each course before enrolling in the class.

- PLA 6247 - Conflict Resolution Theory **3 Credit Hours**
and
- PLA 6515 - Understanding Human Behavior and Conflict **3 Credit Hours**

Electives—6 Credit Hours

Students must satisfy the prerequisites, if any, for each course before enrolling in the class. Choose two of the following courses.

- COM 6046 - Interpersonal Communication **3 Credit Hours**
or
- COM 6047 - Interpersonal Support in the Workplace **3 Credit Hours**
or
- COM 6145 - Organizational Communication **3 Credit Hours**
or
- COM 6425 - Symbolism in Terrorism **3 Credit Hours**
or
- COM 6463 - Studies in Intercultural Communication **3 Credit Hours**
or
- COM 6467 - Studies in Persuasion **3 Credit Hours**
or
- COM 6468 - Communication and Conflict **3 Credit Hours**
or
- MAN 6448 - Conflict Resolution and Negotiation **3 Credit Hours**
or
- PAD 6397 - Managing Emergencies and Crises **3 Credit Hours**
or
- PAD 6439 - Leadership in Public Service **3 Credit Hours**
or
- PAD 6705 - Public Sector Communications **3 Credit Hours**
or
- PLA 6245 - Advanced Applied Negotiation and Conflict Resolution **3 Credit Hours**
or
- PLA 6486 - Administrative Law **3 Credit Hours**

Required Practicum Experience—3 Credit Hours

Students must complete the two required courses (listed above) before enrolling in the practicum experience. In addition, practicum must be taken in the last semester.

- PLA 6246 - Advanced Mediation and Conflict Resolution Practicum **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Conflict Resolution and Analysis Certificate	*Fall Priority	Fall	S
Domestic Applicants		Jul 1	
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Christy L. Foley, J.D.

Visiting Lecturer
Office: DPAC 430
Phone: 407-823-1670
Christy.Foley@ucf.edu

Kristal Johnson

Office: DPAC 430
Phone: 407-823-1670
k.johnson@ucf.edu

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Conservation Biology Graduate Certificate

College: Sciences

Department: Biology

Program Websites: http://biology.cos.ucf.edu/graduate_index.php

Program Description

This certificate is no longer accepting applications effective Fall 2016.

The Graduate Certificate in Conservation Biology provides students with an excellent opportunity for cross-discipline training in conservation theory in a classroom setting with fieldwork in the laboratory portions of Biology.

The Graduate Certificate in Conservation Biology emphasizes basic and applied conservation biology. The certificate offers an excellent opportunity for cross-discipline training that provides conservation theory in a classroom setting and valuable field work in the laboratory portions of the Biology courses. The Department of Biology provides basic courses on campus, while scientists at Walt Disney World's Animal Kingdom offer applied courses on Disney property. Practical experience dealing with small animal populations is provided within Disney's unique zoological setting.

Curriculum

The Conservation Biology certificate requires four graduate courses (12 credit hours) in conservation study.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students should take two courses from Group A, one course from Group B, and the course from Group C.

Group A

- PCB 5935 - Population Genetics **3 Credit Hours**
- PCB 6053C - Restoration Ecology **4 Credit Hours**
- PCB 6328C - Landscape Ecology **4 Credit Hours**
- PCB 6480C - Quantitative Conservation Biology **4 Credit Hours**
- PCB 6556 - Conservation Genetics **3 Credit Hours**

Group B

- BOT 6623C - Plant Ecology **4 Credit Hours**
- BSC 5824 - Biogeography **4 Credit Hours**
- ENY 5006C - Entomology **4 Credit Hours**
- PCB 5326C - Ecosystems of Florida **5 Credit Hours**
- PCB 5435C - Marine Ecology of Florida **4 Credit Hours**
- ZOO 5456C - Ichthyology **4 Credit Hours**
- ZOO 5463C - Herpetology **4 Credit Hours**
- ZOO 5475L - Field Ornithology **3 Credit Hours**
- ZOO 5486 - Mammalogy **4 Credit Hours**

Group C

- PAZ 5235 - Zoo and Aquarium Biology Management **3 Credit Hours**

Independent Learning

Graduate students enrolled in the Graduate Certificate in Conservation Biology are expected to engage in independent learning throughout their enrollment. Independent learning is a key component of all of the courses approved for inclusion in this certificate, where emphasis is placed on the development of analytical skills and critical thinking. In addition, depending upon their career goals, other experiences such as directed readings, additional research projects, or internships may be undertaken by the students.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Contact Info

Graduate Program

Kate Mansfield PhD

Assistant Professor
kate.mansfield@ucf.edu
Telephone: 407-823-4431
BIO 402B

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Corporate Communication Graduate Certificate

College: Sciences

Department: Nicholson School of Communication and Media

Program Websites: <https://communication.ucf.edu/degree/corporate-communication/>

Program Description

The Graduate Certificate in Corporate Communication offers industry-relevant training in creating, managing, and communicating corporate reputation. Coursework focuses on theory, research, and practical applications of principles related to corporate communication. The program is composed of three core graduate courses and three elective courses, totaling 18 credit hours, suitable for professionals working in the industry.

Housed in the Nicholson School of Communication and Media, the graduate Corporate Communication Certificate is part of UCF Downtown, a 21st-century campus with access to arts, culture, nightlife, and business. While some courses are offered online, required core courses and most electives are offered in a face-to-face or mixed-mode formats, typically Mon-Thu evenings at UCF Downtown.

Curriculum

The program is composed of three required graduate courses and three elective courses that can be incorporated into a master's program of study in Communication or taken as an add-on to another graduate degree. The required and elective courses are drawn from a limited list of courses that reflect current professional development needs for corporate communication. Students must enroll in COM 6008 in their first fall semester.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

- COM 6008 - Proseminar in Communication **3 Credit Hours**
- PUR 6005 - Theories of Public Relations **3 Credit Hours**
- PUR 6403 - Crisis Public Relations **3 Credit Hours**

Electives—9 Credit Hours

- ADV 6209 - Advertising and Society **3 Credit Hours**
- COM 5312 - Introduction of Communication Research **3 Credit Hours**
- COM 5932 - Topics in Communication Theory and Research **3 Credit Hours**
- COM 6047 - Interpersonal Support in the Workplace **3 Credit Hours**
- COM 6121 - Communication Management **3 Credit Hours**
- COM 6145 - Organizational Communication **3 Credit Hours**
- COM 6467 - Studies in Persuasion **3 Credit Hours**
- COM 6468 - Communication and Conflict **3 Credit Hours**

- COM 6525 - Communication Strategy and Planning **3 Credit Hours**
- MMC 6202 - Legal and Ethical Issues for Communication **3 Credit Hours**
- MMC 6307 - International Communication **3 Credit Hours**
- MMC 6567 - New Media **3 Credit Hours**
- MMC 6600 - Media Effects and Audience Analysis **3 Credit Hours**
- MMC 6735 - Social Media as Mass Communication **3 Credit Hours**
- PUR 6215 - Communicating Corporate Social Responsibility **3 Credit Hours**
- PUR 6405 - Communication and Public Relations in Politics and Government **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants to this program must provide:

- Official Transcripts
- Statement of Purpose
- CV or Resume

The Corporate Communication Certificate Program does not admit students in the summer semester. Admission to and successful completion of the Corporate Communication Certificate Program does not guarantee admission to the Communication MA program as additional requirements exist for the master's program.

Application Deadlines

Corporate Communication Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jun 1
International Applicants		

Contact Info

Graduate Program

Bridget Rubenking, PhD

Associate Professor and Program Coordinator
bridget.rubenking@ucf.edu
Telephone: 407-823-1711
CMB 170H

TBA

NSCM Graduate Student Services Coordinator
nicholsongrad@ucf.edu
Telephone: 407-823-5595
CMB 203

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
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Corrections Leadership Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Criminal Justice	
Program Website: https://ccie.ucf.edu/criminaljustice/	

Program Description

The Graduate Certificate in Corrections Leadership is designed to provide a theoretical and practical knowledge base for correctional

practitioners in the areas of criminal justice, public administration, and social work.

Corrections Leadership is a rapidly growing area of criminal justice. Private, state, and federal agencies are seeking qualified managers and leaders to meet the changing needs of the twenty-first century. Leaders of correctional facilities and programs should be prepared to meet the challenges of changing policies and effectively deal with the management of budgets, grants, cooperative agreements, and other inter-governmental projects.

Please note: Corrections Leadership Graduate Certificate may be completed fully online, although not all elective options may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters and be part of another degree seeking program. Only 3 of the 9 credit hours may be taken in a completely online format. International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before applying. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Corrections Leadership certificate program consists of two required courses and two elective courses for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—12 Credit Hours

- CJC 5020 - Foundations of Corrections **3 Credit Hours**
- CCJ 5456 - The Administration of Justice **3 Credit Hours**

Elective Courses—6 Credit Hours

Select two of the following courses.

- CCJ 6051 - Community Justice **3 Credit Hours**

- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**
- CCJ 6335 - Criminal Justice Sentencing and Punishment Policy **3 Credit Hours**
- CCJ 6431 - Leadership and Ethics in Criminal Justice **3 Credit Hours**
- CCJ 6118 - Criminal Justice Organizations **3 Credit Hours**
- CCJ 5015 - The Nature of Crime **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**
This course has a prerequisite of PAD 6700. Contact the School of Public Administration for a possible override.
- SOW 6712 - Clinical Social Work Practice with Substance Addictions **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Corrections Leadership Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HPA 1, RM 321

Elaxis Ritz
elaxis.ritz@ucf.edu

Telephone: 407-823-6093
HPA 311

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Crime Analysis Graduate Certificate



College: Community Innovation and Education	Degree: CRT
Department: Criminal Justice	
Program Website: https://ccie.ucf.edu/criminaljustice/	

Program Description

The Graduate Certificate in Crime Analysis provides students with the essential skills needed by law enforcement agencies to meet the new demands for sophisticated crime analysis and mapping products.

The Graduate Certificate in Crime Analysis provides information for data-driven management, investigative support, and general crime analysis. The certificate addresses the needs of traditional criminal justice graduate students and non-traditional criminal justice practitioners. Theoretical aspects of crime pattern analysis are combined with practical applications to understand the development of data-driven crime prevention strategies. Crime pattern recognition and examination are emphasized.

Students learn to synthesize theory and application in order to produce the knowledge base necessary to fully utilize available technologies to develop and perform complex crime analysis and mapping; perform advanced spatial analyses of crime and understand the essentials of creating customized crime analysis and mapping applications that are agency-specific.

Please note: Crime Analysis Graduate Certificate may be completed fully online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters and be part of another degree seeking program. Only 3 of the 9 credit hours may be taken in a completely online format. International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before applying. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Crime Analysis Graduate Certificate consists of four required courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

This sequence of courses can only be started in the Fall semester. Contact department for details on semester offerings

- CCJ 6073 - Data Management Systems for Crime Analysis **3 Credit Hours**
- CCJ 6079 - Crime Mapping and Analysis in Criminal Justice **3 Credit Hours** (PR: CCJ 6073)
- CCJ 6077 - Advanced Crime Mapping and Analysis in Criminal Justice **3 Credit Hours** (PR: CCJ 6073 and CCJ 6079)
- CCJ 6717 - CJ Theories of Crime Analysis and Prevention **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Crime Analysis Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Eugene Paoline, III PhD

Professor
 Eugene.Paoline@ucf.edu
 Telephone: 407-823-2603
 HPA 1, RM 321

Elaxis Ritz

elaxis.ritz@ucf.edu
 Telephone: 407-823-6093
 HPA 311

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

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Criminal Justice Executive Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Criminal Justice	
Program Website: https://ccie.ucf.edu/criminaljustice/	

Program Description

The Graduate Certificate in Criminal Justice Executive prepares criminal justice professionals for contemporary executive roles within their organizations in the areas of self-awareness, operations, logistics, human capital, vision and current industry trends.

This certificate is designed to develop innovative executives who care about people and results and who are preparing themselves and their agencies for the challenges of tomorrow. This certificate assists executives in developing the competencies and skills to successfully adapt to new and unforeseen realities.

This certificate program is only available to students in the Valencia College Public Safety Leadership Development Certification Program (PSLDCP).

Curriculum

The Criminal Justice Executive certificate program consists of three required courses and one elective course for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- CJE 6120 - Personnel Management in Criminal Justice Organizations **3 Credit Hours**
- CCJ 6489 - Professionalism in Criminal Justice Organizations **3 Credit Hours**
- CCJ 5931 - Contemporary Criminal Justice Strategies **3 Credit Hours**

Elective Course: 3 Credit Hours

*CCJ 5931 can be taken twice in this certificate program as the content of the course changes for each offering.

Students select one of the following courses.

- CCJ 5456 - The Administration of Justice **3 Credit Hours**
- CCJ 5931 - Contemporary Criminal Justice Strategies **3 Credit Hours** *
- CCJ 6118 - Criminal Justice Organizations **3 Credit Hours**

Application Requirements

Admission is only open to those with a bachelor's degree from a regionally accredited institution who are enrolled in the Public Safety Leadership Development Certification Program (PSLDPC) at the Valencia Criminal Justice Institute. An application to the graduate certificate program, official transcripts, and a letter of acceptance to the Valencia College Public Safety Leadership Development Certification Program must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Criminal Justice Executive Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-4946
HPA 1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HPA 311

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

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ETS PPI: 5233

Cyber Risk Management Graduate Certificate ► ◆

College: Business Administration	Degree: CRT
Department: Management	
Program Websites:	

Program Description

The certificate in Cyber Risk Management introduces students from various academic backgrounds to current cybersecurity and privacy matters affecting organizations and emphasizes managerial and risk-based approaches to help organizations effectively prepare for and respond to these concerns.

Please Note: The Cyber Risk Management Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

Students are required to take each of the courses listed below. The courses are sequential and must be taken in the following order: 1. ISM 6327, 2. ISM 6328, 3. ISM 6375

- ISM 6327 - Foundations of Cybersecurity and Privacy **3 Credit Hours**
- ISM 6328 - Cyber Risk Assessment **3 Credit Hours**
- ISM 6375 - Cyber Management and Leadership **3 Credit Hours**

Application Requirements

Admission is open to those with documentation of a Bachelors degree from an accredited institution or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume/CV

Application Deadlines

Cyber Risk Management Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Kelley Dietrich, Director of Admissions
cbagrad@ucf.edu

Graduate Admissions

Mike Burke
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
TOEFL: 5233
ETS PPI: 5233

Data Analytics Graduate Certificate



College: Engineering and Computer Science	Degree: CRT
Department: Computer Science	
Program Websites: http://www.ce.ucf.edu/credit/data/	

Program Description

The Graduate Certificate in Data Analytics, which is part of the Master of Science in Data Analytics program, aims to provide students with the new ability to develop algorithms and computer programs for discovery of information from large amounts of data. This includes the architecture of programs, as well as technical details of algorithm development. Students are expected to be able to write and maintain novel computer programs that make efficient use of cutting-edge computer technology.

Students in this certificate option will receive a broad background in the areas of parallel database programming, machine learning, data mining, and network science while specializing in particular areas of data analytics practice. Students successfully completing this certificate program will have exhibited an advanced ability to lead in the discovery of actionable knowledge from "big data."

Please note: Data Analytics Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Graduate Certificate in Data Analytics requires 15 credit hours. Students must receive a grade of "B" or higher in all courses.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

An undergraduate degree in computer science, statistics, computer engineering or information technology is desirable but not required. Applicants without a strong undergraduate background in computer science or statistics must demonstrate an understanding of the field. This can occur through a display of training in various programming languages, other computer science certificates, through an interview with program faculty in the application process, and/or

having taken these or similar courses in the following upper division undergraduate courses:

- COP 3330 Object-Oriented Programming
- COP 3503C Computer Science II
- COP 4710 Database Systems
- STA 2023 Statistical Methods I
- Programming experience or STA 4164 Statistical Methods III

Required Courses: 15 Credit Hours

All students are required to take the following courses, for a total of 15 credit hours.

- CAP 5610 - Machine Learning **3 Credit Hours**
- CNT 5805 - Network Science **3 Credit Hours**
- COP 5711 - Parallel and Distributed Database Systems **3 Credit Hours**
- STA 5206 - Statistical Analysis **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**

Application Requirements

For information on general UCF graduate certificate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
 - Resume/CV
 - Letters of recommendation (encouraged but not required)
- Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

An undergraduate degree in Computer Science, Statistics, Information Technology, or Computer Engineering is desirable but not required. Applicants without a strong undergraduate background in Computer Science and Statistics must demonstrate an understanding of the material covered in upper-division undergraduate courses listed under the Articulation Section of the Curriculum Information. Applicants may choose to demonstrate their knowledge of these courses by taking these courses as non-degree seeking and scoring "B" or better in all of them.

Application Deadlines

Data Analytics	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

Ivan Garibay PhD
 igaribay@ucf.edu
 Telephone: 407-882-1163
 ENG2

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://graduate.ucf.edu/funding/>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
<http://finaid.ucf.edu>

Design for Usability Graduate Certificate ►

College: Engineering and Computer Science	Degree: CRT
Department: Industrial Engineering and Management Systems	
Program Websites: http://www.iems.ucf.edu/	

Program Description

This program has suspended admissions effective Fall 2020 including online.

The Graduate Certificate in Design for Usability introduces students to the methods of user-centered design and usability engineering tools that can be used to assess and assure usability throughout a product, service or system development cycle. Students in the certificate program learn how to design products that are both ergonomically sound and user-friendly, how to plan and conduct usability tests, analyze related data, and how to use the results to improve the design of a product, service or system.

Please note: Design for Usability Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Design for Usability certificate, students complete four required courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- EIN 5248 - Ergonomics **3 Credit Hours**
- EIN 5251 - Usability Engineering **3 Credit Hours** or
- EIN 6370 - Innovation in Engineering Design **3 Credit Hours**
- EIN 6258 - Human Computer Interaction **3 Credit Hours** or
- EIN 5255C - Interactive Simulation **3 Credit Hours**
- ESI 6247 - Experimental Design and Taguchi Methods **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only. Applications are accepted for the fall and spring terms only.

Application Deadlines

Design for Usability Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Mansooreh Mollaghasemi PhD

Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Destination Marketing and Management Graduate Certificate



College: Hospitality Management

Program Websites: <http://www.hospitality.ucf.edu/>

Program Description

The Graduate Certificate in Destination Marketing and Management provides knowledge and information that facilitates the effective marketing and management of tourist destinations. The certificate covers the strategies for creating integrated destination marketing and

management systems, critically reviews those issues and techniques of international tourism management with a particular focus on the economic, socio-cultural and environmental impacts of tourist development at destinations, and analyzes the quantitative impact of tourism as an industry both within and beyond tourist destinations.

Students learn to synthesize theory and application at the graduate level in order to produce the knowledge base necessary to fully utilize available techniques and strategies for the effective marketing and management of tourist destinations. Students successfully completing this certificate may already be in destination marketing or management positions or seeking such roles in this exciting and growing field.

Please note: Destination Marketing and Management Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Destination Marketing and Management Graduate Certificate is comprised of three required three-credit courses, nine credits in total.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

There is no specific course sequence in that a number of sections of each course are available throughout the year with students able to commence in the Fall, Spring or Summer semester. One course, and sometimes more, are offered each term.

- HMG 6710 - International Tourism Management **3 Credit Hours**
- HMG 6566 - Principles of Destination Marketing and Management **3 Credit Hours**
- HMG 6738 - Tourism Industry Analysis **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to the above application requirements, all applicants to this certificate program will be required to submit:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

These documents must be attached to the application. The goal statement should address the applicant's interest in pursuing the certificate program and fully discuss any experience that he or she has had in the field. A minimum of 2 years of full-time post-undergraduate work experience is required for admission.

Application Deadlines

Destination Marketing and Management Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

David Kwun PhD

Associate Professor MS Programs Coordinator
David.Kwun@ucf.edu
Telephone: 407-903-8190
RCHM 277

Kathy Henry MPA

Assistant Director, Graduate Programs Academic Adviser
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102

Ricarya Jackson

Administrative Assistant Graduate Programs
Ricarya.Jackson@ucf.edu
Telephone: 407-903-8196
RCHM 102C

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Dual Language Graduate Certificate

College: Community Innovation and Education	Degree: CRT
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Department: School of Teacher Education

Program Website: <https://ccie.ucf.edu/teachered/k-12/world-languages-education/>

Program Description

The Dual Language Graduate Certificate in Teaching and Leadership prepares students with specialized knowledge and skills to teach in a dual language setting. The purpose of this certificate is to provide K-12 teacher and other education professionals with specialized coursework in Dual Language programming. This construct is aimed for students to develop competencies in bilingualism, biliteracy, and multiculturalism. The design of this program is to develop leadership among teachers working or planning to work in a dual language or two-way immersion programs in a K-12 setting. The coursework in this certificate program will allow teachers and administrators to develop expertise in philosophical/ideological principles, pedagogy, and curriculum and program processes for effective biliteracy program development.

Curriculum

The Dual Language Graduate Certificate can be completed in one or more semesters, depending on the semester of entrance. It can also be completed fully online.

Students must consult with their adviser or the program director prior to selecting the six courses for their program. No course substitutions are allowed.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—18 Credit Hours

Select six of the following seven courses. Please consult with your adviser to help you choose the courses that best fit the needs for your future career.

- SPN 6940 - Teaching Methods for the Spanish Classroom **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- TSL 6143 - Curriculum and Instruction in Dual Language Programs **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom **3 Credit Hours**

- TSL 6443 - Assessment in Dual Language Programs **3 Credit Hours**
- TSL 6526 - Interdependencies of Language, Culture, and Education for Dual Language Learners **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Contact Info

Graduate Program

Joyce Nutta, PhD

Professor

joyce.nutta@ucf.edu

Telephone: 407-4823-4341

ED 122M

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

e-Learning Design, Development, and Delivery Graduate Certificate



College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/	

Program Description

The Graduate Certificate in e-Learning Design, Development and Delivery is designed for educators in K-12 and higher education, trainers, and instructional designers.

The e-Learning Design, Development and Delivery certificate focuses on teaching the design, delivery, and evaluation of high-quality e-learning materials for in-service, preservice teacher and online trainers.

Please Note: The e-Learning Design, Development and Delivery Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit www.international.ucf.edu. If you have questions, please consult International Affairs and Global Strategies at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Graduate Certificate in e-Learning Professional Development, students complete 15 credit hours of required courses. For the recommended plan of study, noting when each course is offered, refer to the Instructional Technology program website under **Plans of Study** for graduate certificates.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

*EME 6417 (fall) must be taken before EME 6458 (spring).

- EME 6613 - Instructional System Design **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6457 - Distance Education: Technology Process Product **3 Credit Hours**
- EME 6417 - Interactive Online and Virtual Teaching Environments **3 Credit Hours**
- EME 6458 - Virtual Teaching and the Digital Educator **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

e-Learning Professional Development Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Glenda Gunter PhD
Associate Professor
glenda.gunter@ucf.edu
ED 322P

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Educational Program Evaluation Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/methodology-measurement-and-analysis/	

Program Description

The Educational Program Evaluation graduate certificate focuses on program evaluation related to the field of education but will be broad-based enough to be useful for students from all disciplines. This program will help learners enhance their positions in the evaluation community, help them pursue careers in evaluation, and improve the general state of knowledge in program evaluation.

Curriculum

The graduate certificate in Educational Program Evaluation requires 15 credit hours of courses selected from a list of approved courses.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

- EDG 6285 - Evaluation of School Programs **3 Credit Hours**
- EDF 6464 - Mixed Methods for Evaluation in Educational Settings **3 Credit Hours**
- EDF 6931 - Seminar in Program Evaluation **3 Credit Hours**

Elective Courses—6 Credit Hours

Select 2 of the following courses. **All 7000 level courses must be approved by program coordinator prior to selection.**

Data Analysis Methods

- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis **3 Credit Hours**

Evaluation/Research Methods/Grants

- EDF 6481 - Fundamentals of Graduate Research in Education **3 Credit Hours**
- SCE 7935 - Seminar—Professional Writing/Grants in Science Education **3 Credit Hours**

Measurement and Surveys

- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data **3 Credit Hours**

Application Requirements

Admission is open to those with a master's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Educational Program Evaluation Graduate Certificate	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1	Dec 1	Apr 1
International Applicants				

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Steven Sivo PhD

Professor
Steven.Sivo@ucf.edu
Telephone: 407-823-4147
ED 222Q

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Emergency Management and Homeland Security Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Public Administration	
Program Websites: https://ccie.ucf.edu/public-administration/emergency-management/certif	

Program Description

This graduate certificate in Emergency Management and Homeland Security provides intensive interdisciplinary graduate education for working professionals engaged in or seeking professional careers in emergency management and homeland security.

The curriculum focuses on managing security threats and crises, natural and man-made treats, disasters, or emergencies through the coordination of public, private and nonprofit sectors. In addition to covering the National Planning Frameworks and recent trends in policy and practice in this field, the program will focus on the Florida emergency management and public safety systems. Courses are held in the evenings and taught by experienced faculty members and professionals.

Curriculum

The certificate in Emergency Management and Homeland Security consists of 18 credit hours at the graduate level, including four required core courses and two electives (one from a planning emphasis and one from management/policy). The EMHS graduate certificate program is a face-to-face program; some courses are offered on-line, however, students admitted to the EMHS program are expected to attend each course in person face-to-face. Each face-to-face course is offered one night a week for three hours, on the main campus.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

All students must take the following courses.

- PAD 6399 - Foundations of Emergency Management and Homeland Security **3 Credit Hours**
- PAD 6397 - Managing Emergencies and Crises **3 Credit Hours**
- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**
- PAD 6825 - Cross-Sectoral Governance **3 Credit Hours**

Elective Courses: 6 Credit Hours

Restricted: 6 Credit Hours

- Select one course from Group 1
- Select one course from Group 2

Group 1—Planning Emphasis

- PAD 5336 - Introduction to Urban Planning **3 Credit Hours**
- PAD 5338 - Land Use and Planning Law **3 Credit Hours**
- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 6353 - Environmental Planning and Policy **3 Credit Hours**
- CGN 6655 - Regional Planning, Design, and Development **3 Credit Hours**
- PUR 6403 - Crisis Public Relations **3 Credit Hours**
- PAD 6946 - Internship **3 Credit Hours** (Internship must show a management and policy emphasis. If an internship is completed as a group 2 elective, a second internship cannot be completed as a group 1 elective. Current or previous employment cannot be applied toward the internship.)

Group 2—Management and Policy Emphasis

- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6387 - Transportation Policy **3 Credit Hours**
- CCJ 6027 - Criminal Justice Responses to Terrorism **3 Credit Hours**
- HSA 5198 - Health Care Decision Sciences and Knowledge Management **3 Credit Hours**
- INR 6136 - Seminar in American Security Policy **3 Credit Hours**
- PAD 6946 - Internship **3 Credit Hours** (Internship must show a management and policy emphasis. If an internship is completed as a group 2 elective, a second internship cannot be completed as a group 1 elective. Current or previous employment cannot be applied toward the internship.)

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended.
- Current professional résumé including experience in the field (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
 - Personal background and career aspirations in emergency management.
 - Reason for pursuing graduate study in emergency management, including your future career goals and plans.
 - Specific areas of emergency management that interests you.

These documents must be attached to the application. All applications must be submitted by the established deadline date. Applications received after the established deadline may not be considered. Students are expected to be computer literate and have computer internet access upon entry to the program. Admission to this program is competitive; applicants meeting the minimum admission requirements are not guaranteed admission to this program.

Application Deadlines

Emergency Management and Homeland Security Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". The information provided in the link below is the best that is available to us. This information represents one year's data only, however, we hope that this information is helpful to current and prospective students, as you make your career and educational choices.

Contact Info

Graduate Program

Claire Knox PhD

Associate Professor

Director, Emergency Management Programs
Claire.Knox@ucf.edu
Telephone: 407-823-0153

Nasrin Lakhani, MNM

Director, Graduate Advising and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Entrepreneurship Graduate Certificate

College: Business Administration	Degree: CRT
Department: Management	
Program Websites: http://www.bus.ucf.edu/students/graduate/?page=1842	

Program Description

The Graduate Certificate in Entrepreneurship helps students develop entrepreneurial mindsets and skillsets needed to solve novel problems and create value for others. Participants will learn how to recognize opportunities, formulate solutions, design business models, deliver results, and sustain success. These capabilities will empower

graduates to help others by providing them with access to innovations that solve important problems.

These skills are essential to starting and leading new projects, initiatives, and startup ventures, and are valued by established organizations as well as startups. This certificate is a valuable complement to those transitioning career paths, and to graduate students who would benefit from learning how to commercialize innovations or champion innovations in corporate, government, or entrepreneurial settings.

Curriculum

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- ENT 5016 - New Venture Design **3 Credit Hours**
- ENT 5206 - New Venture Implementation **3 Credit Hours**

- ENT 6617 - Innovation and Entrepreneurship Strategy **3 Credit Hours** or
- ENT 5185 - Technological Entrepreneurship **3 Credit Hours**

Application Requirements

Admission is open to those with documentation of a bachelors degree from an accrediting body accepted by UCF or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume/CV

Application Deadlines

Entrepreneurship Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
<p>*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date. FALL DEADLINE EXTENDED TO AUG 1</p>		

Contact Info

Graduate Program

Cameron Ford PhD

Associate Professor
cbagrad@bus.ucf.edu
Telephone: 407-823-3700
Business Administration 345

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

ESOL Endorsement K-12 Graduate Certificate

College: Community Innovation and Education	Deg
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/teachered/k-12/world-languages-education/	

Program Description

The Graduate Certificate in English for Speakers of Other Languages Endorsement K-12 is designed to prepare certified teachers with specialized knowledge and training in the five areas required by the state of Florida to teach in a K-12 setting: applied linguistics, curriculum, testing, methodology and cross-cultural awareness.

Teaching K-12 requires a primary teaching certification. The ESOL K-12 is an endorsement that is added to an existing teaching certification. This endorsement, therefore, is for certified teachers or students currently seeking certification with the State of Florida only.

The number of non-native students in the K-12 setting in the state of Florida as well as in most states is rapidly increasing. These students represent an array of different languages and cultural backgrounds. With these changes in K-12 schools comes more demand for qualified teachers who have the necessary knowledge and skills to work with English for Speakers of Other Languages (ESOL) students.

The ESOL Endorsement K-12 Graduate Certificate provides students with specialized knowledge and training in the five endorsement areas required for teachers in the state of Florida. The certificate focuses on the five areas required by the state of Florida to teach in a K-12 setting: applied linguistics, curriculum, testing, methodology, and cross-cultural awareness. Successful completion of the certificate meets the requirements for the state of Florida add-on endorsement for ESOL K-12.

The ESOL Endorsement K-12 Graduate Certificate has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-ESOL-Endorsement-GC.pdf>.

Curriculum

No course substitutions are allowed. Upon successful completion, students will need to complete separate paperwork with the state of Florida for official recognition of this endorsement.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours** or
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** for students admitted to the Speech and Language Pathology program
- TSL 5525 - ESOL Cultural Diversity **3 Credit Hours** or
- EDF 6886 - Multicultural Education **3 Credit Hours**
- TSL 6142 - Critical Approaches to ESOL **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6440 - Assessment Issues in TESOL **3 Credit Hours** or
- SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations **3 Credit Hours** for students admitted to the Speech and Language Pathology program

Independent Learning

TSL 5525, TSL 5345, and TSL 6250 require students to work with one or more nonnative speakers. TSL 6250 requires students to transcribe data elicited from a nonnative speaker.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Application Deadlines

ESOL Endorsement K-12 Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Joyce Nutta PhD

Professor
joyce.nutta@ucf.edu
Telephone: 407-823-4341
ED 122M

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Ethics, Theoretical and Applied Graduate Certificate ►

College: Arts and Humanities	Degree: CRT
Department: Philosophy	
Program Websites: http://philosophy.cah.ucf.edu/program/ethics-grad-certificate/	

Program Description

Students in the Graduate Certificate in Theoretical and Applied Ethics program specialize in applying ethical theories and principles to complex contemporary situations.

This interdisciplinary graduate certificate focuses on specific topics of ethical inquiry in philosophy, humanities, the arts, sciences, health care, business, education, criminal justice, public administration, public relations, journalism, politics and other areas.

Please note: Theoretical and Applied Ethics Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

Students may choose to specialize in some specific academic discipline or tailor their own areas of concentration.

All elective courses have been approved for inclusion by the chair or director of the relevant program. However, students without the appropriate prerequisites to courses will need to obtain the consent of the instructor to enroll.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—6 Credit Hours

- PHI 5627 - Theoretical and Applied Ethics **3 Credit Hours**
- PHI 5665 - Knowledge, Responsibility, and Society **3 Credit Hours**

Elective Courses—6 Credit Hours

Students choose two from the following list. Availability contingent on department annual offerings and instructor approval.

- ACG 6835 - Ethics and Professionalism in Accounting and Auditing **3 Credit Hours**
- ADV 6209 - Advertising and Society **3 Credit Hours**
- ANG 6003 - Ethics in Anthropology **3 Credit Hours**
- BUL 6444 - Law and Ethics **3 Credit Hours**
- CCJ 5456 - The Administration of Justice **3 Credit Hours**

- CCJ 6431 - Leadership and Ethics in Criminal Justice **3 Credit Hours**
- CCJ 6485 - Issues in Justice Policy **3 Credit Hours**
- CJC 5020 - Foundations of Corrections **3 Credit Hours**
- CJE 5021 - Foundations of Law Enforcement **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**
- CLP 6932 - Ethical and Professional Issues in Mental Health Practices **3 Credit Hours**
- CLP 7623 - Ethical and Professional Issues in Clinical Psychology **3 Credit Hours**
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDH 6407 - Ethical and Legal Issues in Student Personnel **3 Credit Hours**
- HSA 6555 - Health Care Ethics and Law **4 Credit Hours**
- IDC 6600 - Emerging Cyber Issues **3 Credit Hours**
- MAN 6066 - Ethical Leadership **3 Credit Hours**
- MHS 6702 - Ethical and Legal Issues **3 Credit Hours**
- MMC 6202 - Legal and Ethical Issues for Communication **3 Credit Hours**
- PAD 5041 - Ethics and Values in Public Administration **3 Credit Hours**
- PET 5495 - Critical Issues: Ethics in Coaching and Sport **3 Credit Hours**
- PHI 5634 - Medical Ethics **3 Credit Hours**
- PHI 5687 - Ethics in Science and Technology **3 Credit Hours**
- PHI 5697 - Neuroethics **3 Credit Hours**
- PHI 6679 - Digital Ethics **3 Credit Hours**
- PHM 5035 - Environmental Philosophy **3 Credit Hours**
- POT 6007 - Seminar in Political Theory **3 Credit Hours**
- SPB 6506 - Moral and Ethical Issues in Sport **1.5 Credit Hours**
- WST 5347 - Research in Women and Gender Studies **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Relevant experience with theoretical and applied ethics through course work at the undergraduate or graduate level or through professional experience working with ethical issues will be evaluated by the graduate program director together with the certificate committee comprised of faculty from the participating departments. Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Application Deadlines

Ethics Graduate Certificate, Theoretical and Applied	*Fall Priority	Fall
Domestic Applicants		Jul1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Jonathan Beever PhD

jonathan.beever@ucf.edu

Telephone: 407-823-4340

Psychology Building (PSY) 238

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Event Management Graduate Certificate ►

College: Hospitality Management

Department: Dean's Office

Program Websites: <http://www.hospitality.ucf.edu/>

Program Description

The Graduate Certificate in Event Management provides knowledge and information that facilitates the effective organization and management of events in the public, private and third sector contexts.

The certificate covers the administration of events (e.g. promotion, budgeting, marketing, production, legal issues, customer service, ticketing and concession), the selling and marketing of conventions and conferences, and the organization and administration of mega-events. Events are such an integral component of many industries today that although with a strong focus on tourism and hospitality, the certificate incorporates a number of perspectives with event legacies being a particularly pertinent issue for all coursework.

Students learn to synthesize theory and application at the graduate level in order to produce the knowledge base necessary to fully utilize available techniques and strategies for the effective organization, marketing, and management of events, conventions, and conferences. Students successfully completing this certificate may already be in event management positions or seeking such roles in the public, private or third sectors.

Please note: Event Management Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Event Management Graduate Certificate is comprised of three required three-credit courses, nine credits in total.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

There is no specific course sequence in that a number of sections of each course are offered every year with students able to commence in the Fall, Spring or Summer semester. One course, and sometimes more, are offered each term.

- HMG 6797 - Event Administration **3 Credit Hours**
- HMG 6528 - Convention and Conference Sales and Services **3 Credit Hours**
- HMG 6756 - Mega-Events **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to the above application requirements, all applicants to this certificate program will be required to submit:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

These documents must be attached to the application. The goal statement should address the applicant's interest in pursuing the certificate program and fully discuss any experience that he or she has had in the field. A minimum of 2 years of full-time post-undergraduate work experience is required for admission.

Application Deadlines

Event Management Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

David Kwun PhD

Associate Professor
Master's Program
Coordinator

David.Kwun@ucf.edu
Telephone: 407-903-8190
RCHM 277

Kathy Henry MPA

Assistant Director, Graduate Programs Academic Adviser
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102

Ricarya Jackson

Administrative Assistant Graduate Programs
Ricarya.Jackson@ucf.edu
Telephone: 407-903-8196
RCHM 102C

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Family Nurse Practitioner Graduate Certificate

College: Nursing
Department: Nursing
Program Websites: http://www.nursing.ucf.edu
Graduate Program Handbook

Program Description

The post-master's Family Nurse Practitioner Graduate Certificate prepares nurses who already have received a master's degree in nursing for positions as Family Nurse Practitioners. Graduates of this program are eligible to site for the Family Nurse Practitioner (FNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center.

Program Objectives

- Analyze social, economic, ethical, cultural, legal and political issues influencing nursing practice and health care in a global context.
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional nursing practice and the healthcare system.
- Develop and implement leadership, management and teaching strategies for the improvement of health and healthcare.
- Develop practice models of evidence-based nursing practice incorporating nursing research.

- Influence health and public policy to improve the health of communities.
- Participate in lifelong learning activities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities and nursing theories to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skills.
- Practice in an advanced nursing role.

For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Family-Nurse-Practitioner-GC.pdf>.

Curriculum

The certificate program is 22 credit hours and includes up to 720 hours of clinical practice. There are 12 credit hours of prerequisite requirements.

Total Credit Hours Required: 22 Credit Hours Minimum beyond the Master's Degree

Prerequisites—12 Credit Hours

Students must demonstrate successful completion of the following courses:

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning **2 Credit Hours**
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab **1 Credit Hours** (60 clinical hours)
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 6172 - Pharmacology for Advanced Nursing Practice **3 Credit Hours**

Required Courses—22 Credit Hours

In addition, students must successfully complete all of the following DNP Family Nurse Practitioner Track courses:

- NGR 6334 - Women's Health for APNs **2 Credit Hours**
- NGR 6201 - Adult I Primary Care **3 Credit Hours**
- NGR 6240L - Adult I Clinical for APNs **3 Credit Hours** (180 clinical hours)
- NGR 6263 - Gerontologic Care for APNs **3 Credit Hours**
- NGR 6263L - Gerontologic Care Clinical for NPs **2 Credit Hours** (120 clinical hours)
- NGR 6305 - Pediatric Primary Care **3 Credit Hours**

- NGR 6305L - Pediatric Primary Care Clinical **2 Credit Hours** (120 clinical hours)
- NGR 6342L - Women's Health for APNs Clinical **1 Credit Hours** (60 clinical hours)
- NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum **3 Credit Hours** (180 clinical hours)

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is open to those with MSN Degrees and is licensed as an advanced practice registered nurse, but who are not prepared as Family Nurse Practitioners. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as an advanced practice registered nurse (APRN) in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue or problem in U.S. healthcare and explore how members of the nursing profession can help address that issue or solve that problem
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
- Requires 3 professional recommendations.
- An interview with faculty may also be required.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for post-master's preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$150 per degree program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Family Nurse Practitioner Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Valerie Martinez, DNP, APRN, CPNP-PC
 Clinical Assistant Professor
 Valerie.Martinez@ucf.edu
 Telephone: 407-823-5024
 UTWR 459

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766

FinTech Graduate Certificate ► ◆

College: Business Administration and College of Engineering and Computer Science	Degree: CRT
Department: Finance (College of Business) and Computer Science (College of Engineering and Computer Science)	
Program Websites:	

Program Description

Program suspended admission beginning Fall 2021.

FinTech is the use of technology to innovate, improve and facilitate the delivery of traditional financial services. The objective of the FinTech Certificate is to introduce students to the foundations of FinTech and employable technical skills including artificial intelligence and the development of algorithms.

Please Note: The FinTech Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- CAP 5636 - Advanced Artificial Intelligence **3 Credit Hours**
- COT 5405 - Design and Analysis of Algorithms **3 Credit Hours**
- FIN 6515 - Analysis of Investment Opportunities **3 Credit Hours**

- FIN 6779 - FinTech in Decision Making **3 Credit Hours** Fall only
- or
- FIN 6778 - Foundations of FinTech **3 Credit Hours** Spring only

Application Requirements

Admission is open to those with documentation of a bachelors degree from an accredited institution or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume/CV

Application Deadlines

FinTech Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.
Program suspended admission beginning Fall 2021.

Contact Info

Graduate Program

Kelley Dietrich
 cbagrad@bus.ucf.edu

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Fundraising Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: School of Public Administration	Option: Nonthesis
Program Websites: https://ccie.ucf.edu/public-administration/nonprofit-management/	

Program Description

The Graduate Certificate in Fundraising is an 18-credit completely **online certificate** that provides an overview of the core concepts in fundraising and development for those interested in a career as a professional fundraiser. The Certificate is intended to meet the needs of individuals seeking a focused experience in order to prepare for or advance their careers in fundraising and development. It is appropriate for students who seek to expand their knowledge, but who do not wish to commit to a master's degree program.

Credits earned in the certificate program may be applied toward the Master of Nonprofit Management (MNM) degree. However, admission to the MNM degree program has separate requirements from those of the certificate program and students considering continuing into the master's degree should familiarize themselves with credit transfer policy and should consult with a faculty adviser early in their certificate program. The Graduate Certificate in Fundraising requires that students complete 18 credit hours. Students

must maintain at least a 3.0-grade point average in order to be awarded the Graduate Certificate. The Certificate must be completed within 7 years.

Please note: Fundraising Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Graduate Certificate in Fundraising program is a completely online; some courses may be offered face-to-face, however, students in this program are expected to have the ability to complete the coursework online. The program requires a minimum of 18 credit hours beyond the bachelor's degree; consisting of 15 credit hours of core courses and 3 credit hours of a restricted elective.

The Certificate program incorporates service learning in some of its courses. Service learning involves students partnering with a local nonprofit organization of their choice to offer technical assistance in a specific area of operation that is covered in their coursework. Service Learning enhances the students' academic experience and presents opportunities for networking. The process is supervised by the instructor and provides benefits to both the organization and the student.

Some of the courses may also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Students must maintain a program of study and graduate

status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6237 - Ethics and Governance in Nonprofit Management **3 Credit Hours**
- PAD 6235 - Fundraising as a Profession **3 Credit Hours**

Elective Courses: 6 Credit Hours

Select two courses from the following lists.

Online Electives

- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

Face-to-Face Electives

- PAD 6236 - Philanthropy and Society **3 Credit Hours**
- PAD 6946 - Internship **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript meeting the minimum GPA requirement of 2.5 from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - What is your reason for pursuing graduate study in Fundraising, including your future goals and plans?
 - What specific areas of Fundraising interest you?
 - Work and/or Voluntary experience (fundraising or nonprofit experience is preferred, not required)
 - Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation

with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Fundraising Graduate Certificate	*Fall Priority	Fall	S
Domestic Applicants		July 1	
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Young-Joo Lee, PhD

Nonprofit Management Director & Associate Professor
Young-Joo.Lee@ucf.edu

Nasrin Lakhani, MNM

Director, Student support Services
Nasrin@ucf.edu
407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58

TOEFL: 5233
ETS PPI: 5233

Gender Studies Graduate Certificate



College: Arts and Humanities	Degree: CRT
Department: Women's and Gender Studies	
Program Websites: http://wgst.cah.ucf.edu	

Program Description

The Graduate Certificate in Gender Studies provides skills for practical application of gender theories and research in the workforce to advance leadership and participation, economic empowerment, policy and planning, multi-modal digital literacies, and cross-cultural communication in order to promote gender equality.

The Gender Studies certificate includes courses from both the humanities and the social sciences. The program is open to both degree-seeking and nondegree-seeking graduate students. Most courses are offered at times that will accommodate part-time and working students. Students should consult with the instructor since entry to some graduate courses is restricted by registration codes from the department.

Please note: Gender Studies Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

The Graduate Certificate in Gender Studies includes courses from both the humanities and the social sciences. Entry to CLP 6459C,

ENG 6814 - Gender in Texts and Technology and SOW 5625 may be restricted. Consult with the instructor.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

- WST 5601 - Theories in Gender Studies **3 Credit Hours**
- WST 5347 - Research in Women and Gender Studies **3 Credit Hours**

Elective Courses: 6 Credit Hours

* Students may include only one of these courses (marked with an asterisk) toward meeting the certificate requirements.

** Students must seek the approval of the Director of Women's and Gender Studies, which is based on the review of course syllabi, for these courses (marked with a double asterisk).

- ARH 5897 - Advanced Seminar in Art History **3 Credit Hours**
- CLP 6459C - Human Sexuality, Marriage, and Sex Therapies **3 Credit Hours**
- ENC 6332 - Gendered Rhetoric **3 Credit Hours**
- ENG 6078 - Contemporary Movements in Literary, Cultural, and Textual Theory **3 Credit Hours** **
- ENG 6074 - Historical Movements in Literary, Cultural, and Textual Studies **3 Credit Hours** **
- ENG 6814 - Gender in Texts and Technology **3 Credit Hours**
- LIT 6097 - Studies in Contemporary Fiction **3 Credit Hours** **
- LIT 6216 - Issues in Literary Study **3 Credit Hours** **
- LIT 6936 - Studies in Literary, Cultural, and Textual Theory **3 Credit Hours** **
- PUP 6324 - Women and Public Policy **3 Credit Hours**
- SYD 6809 - Seminar in Gender Issues **3 Credit Hours**
- SYP 5566 - Seminar on Domestic Violence: Theory, Research and Social Policy **3 Credit Hours**
- SYP 6561 - Child Abuse in Society **3 Credit Hours** *
- SYP 6563 - Reactions to Domestic Violence **3 Credit Hours** *
- ACG 6519 - Governmental and Nonprofit Accounting **3 Credit Hours**
- CCJ 6067 - Perspectives on Genocide **3 Credit Hours**
- CCJ 6366 - Criminal Justice Responses to Domestic Violence **3 Credit Hours**
- COM 6047 - Interpersonal Support in the Workplace **3 Credit Hours**
- COM 6468 - Communication and Conflict **3 Credit Hours**
- CPO 6058 - Revolution and Political Violence **3 Credit Hours**

- ENC 5237 - Writing for the Business Professional **3 Credit Hours**
- GEB 6115 - Entrepreneurship **3 Credit Hours**
- GEY 5007 - Women and Healthy Aging **3 Credit Hours**
- HMG 6797 - Event Administration **3 Credit Hours**
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- WST 5108 - Global Women in Crisis **3 Credit Hours**
- HIS 5926 - Colloquium: History of Women and Gender **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Application Deadlines

Gender Studies Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

M.C. Santana PhD
santana@ucf.edu
Telephone: 407-823-2269
Trevor Colbourn Hall (TCH) 348H

Graduate Admissions

Mike Burke
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Geographic Information Systems Graduate Certificate

College: Graduate Studies	Degree: CRT
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Program Description

The Geographic Information Systems (GIS) Graduate Certificate provides students with the interdisciplinary background in geography and the technical skills in the application of GIS. The certificate will enhance the student's ability to understand, visual and analyze geospatial data to address questions related to place and spatial interactions.

GIS and geospatial analyses allow students and researchers to see old problems in new ways making connections by overlaying digital maps and examining spatial networks and processes.

Curriculum

The Geographic Information Systems (GIS) Graduate Certificate requires a total of 12 credit hours of courses in the required competency areas of design, modeling, analysis and visualization. To a certain extent, students may tailor their courses to focus on their broad disciplinary area of study.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students should take one course from Group A, one course from Group B, and two courses from Group C. It is recommended that students take Group C courses after taking Group A and B courses. Other courses related to Geospatial Science can be used to satisfy the Group C requirement, if the specific course is approved by the Graduate Certificate faculty.

Group A - First Core Course

- ANG 5852 - GIS Methods in Anthropology **3 Credit Hours**
- ANG 6181C - GIS Applications in Anthropology **3 Credit Hours**
- CCJ 6079 - Crime Mapping and Analysis in Criminal Justice **3 Credit Hours**
- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**
- POS 6743 - Geographic Tools for Political Science Research **3 Credit Hours**
- SYA 6356 - Geographic Information Systems in Society **3 Credit Hours**

Group B - Second Core Course

- ANG 5853 - Advanced GIS Methods in Anthropology **3 Credit Hours**
- CCJ 6077 - Advanced Crime Mapping and Analysis in Criminal Justice **3 Credit Hours**
- SYA 6452 - GIS Applications **3 Credit Hours**

Group C - Electives

- BSC 5824 - Biogeography **4 Credit Hours**
- CAP 6121 - 3D User Interfaces for Games and Virtual Reality **3 Credit Hours**
- CCJ 6073 - Data Management Systems for Crime Analysis **3 Credit Hours**
- CCJ 7725 - The Geography of Crime: Theory and Methods **3 Credit Hours**
- CWR 5634 - Water Resources in a Changing Environment **3 Credit Hours**
- CWR 6126 - Groundwater Modeling **3 Credit Hours**
- CWR 6535 - Modeling Water Resources Systems **3 Credit Hours**
- EEL 5432 - Satellite Remote Sensing **3 Credit Hours**
- EEL 5820 - Image Processing **3 Credit Hours**
- ENG 6808 - Narrative Information Visualization **3 Credit Hours**

- ENV 6047 - Environmental Informatics and Remote Sensing **3 Credit Hours**
- HIS 5925 - History in the Digital Age **3 Credit Hours**
- HIS 6165 - Digital Tools for Historians **3 Credit Hours**
- HIS 6167 - Spatial History **3 Credit Hours**
- HUM 5396 - Place and Space **3 Credit Hours**
- PCB 6328C - Landscape Ecology **4 Credit Hours**
- TTE 6938 - ST: Geographic Information Systems Applications for Transportation **3 Credit Hours**
- SYA 6458 - Advanced Topics in Geographic Information Systems in Society **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must submit an essay that describes their background and interests in relation to their desire to obtain the GIS certificate.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/ academic goals, the applicant's potential for completing the certificate and openings in the program.

Application Deadlines

Geographic Information Systems Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		July 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Christopher Emrich, PhD
Associate Professor
Christopher.Emrich@ucf.edu

Graduate Admissions

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Gifted Education Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/gifted-education/	

Program Description

The Graduate Certificate in Gifted Education prepares educators and classroom teachers to meet the learning needs of diverse advanced, gifted and talented learners in a range of services while providing an accelerated and enriched curriculum.

Completion of the Gifted Education Certificate program meets the Florida Department of Education requirements to add Gifted Education Endorsement certification to a Florida Teaching Certificate. The coursework presents research-based best practices that examine a broadened conception of giftedness, a comprehensive system of identification and a continuum of services for meeting the differential learning and developmental needs of diverse populations

of gifted students. The Gifted Education Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Gifted-Ed-GC.pdf>.

The coursework for the graduate certificate is based on the Teacher Preparation Standards in Gifted Education set by NAGC/CEC (National Association for Gifted Children and the Council for Exceptional Children). There are two levels possible within the coursework: the regular certificate level applicable to all teachers and professionals seeking specialist knowledge in gifted education; and the Advanced level that includes the Advanced Standards in Gifted Education Teacher Training applicable to those seeking higher levels of research who may already have wide experience in working with advanced, gifted and talented learners. Strategies that model best practices of pre-assessment, curriculum compacting, differentiated and independent learning, extended curriculum, and creative productivity are infused in this program.

Please note: Gifted Education Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Graduate Certificate in Gifted Education, students complete 15 credit hours of required courses.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

- EGI 6051 - Understanding the Gifted/Talented Student **3 Credit Hours**
- EGI 6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners **3 Credit Hours**
- EGI 6246 - Education of Special Populations of Gifted Students **3 Credit Hours**

- EGI 6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals **3 Credit Hours**
- EGI 6305 - Theory and Development of Creativity **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Gifted Education Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Gillian Eriksson PhD
 Gillian.Eriksson@ucf.edu
 Telephone: 407-823-6493
 Education 223M

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Global, International and Comparative Education Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/curriculum-and-instruction/	

Program Description

The Graduate Certificate in Global, International and Comparative Education prepares teachers for PK-12 classrooms and other professionals who wish to work in international and cross-cultural settings, NGOs, bilateral and multilateral organizations, and/or state and federal government departments.

The certificate is comprised of five graduate courses addressing the theoretical, methodological, critical and practical issues associated with global education, through both macro and micro cultural perspectives.

Curriculum

Students in the Graduate Certificate in Global, International and Comparative Education program must complete five courses (15 credit hours total), four required courses and one elective. Courses may be taken out of sequence.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- EDF 6809 - Introduction to Comparative and International Education **3 Credit Hours**
- SSE 5391 - Global Education: Theory and Practice **3 Credit Hours**
- EDF 6855 - Equitable Educational Opportunity and Life Chances: A Cross-National Analysis **3 Credit Hours**
- EDS 6365 - Education and National Development **3 Credit Hours**

Elective Courses: 3 Credit Hours

Choose one elective course from the list below.

- EDG 6775 - Exploring Global Educational Issues in International Contexts **1-3 Credit Hours**
- EEC 6606 - Global Issues in Early Childhood **3 Credit Hours**
- Other graduate courses with Program Coordinator's approval

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Global, International and Comparative Education Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Karen Biraimah PhD
 karen.biraimah@ucf.edu
 Telephone: 407-823-2428
 ED 320H

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Health Care Simulation Graduate Certificate ►

College: Nursing

Department: Nursing

Program Websites: <http://www.nursing.ucf.edu/>

Graduate Program Handbook

Program Description

The Graduate Certificate in Health Care Simulation prepares nurses, members of other healthcare disciplines, administrators and simulation and technology professionals to design, manage and evaluate healthcare simulations for basic education and improvement of team healthcare delivery.

Program Objectives

- Analyze social, economic, ethical cultural legal and political issues influence nursing and health practice in a global context
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional healthcare practice and the outcomes of care
- Develop and implement innovative applications for simulation experiences in health care
- Evaluate models of delivery of simulation in education and healthcare settings in terms of effectiveness
- Evaluate the cost-benefit of the use of simulation in healthcare and education

Please note: Health Care Simulation Graduate Certificate may be completed fully online with some required campus activities. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Health-Care-Simulation-Online-GC.pdf>.

Curriculum

The certificate program requires three courses, for a total of 9 credit hours.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

- NGR 6717 - Introduction to Healthcare Simulation **3 Credit Hours**
- NGR 6794 - Organizational Leadership and Operations in Healthcare Simulation **3 Credit Hours**

- NGR 6978 - Healthcare Simulation Capstone Project 3
Credit Hours

Optional Courses

Students may take the following course as an additional, optional course:

- NGR 6771L - Healthcare Simulation Practicum **VAR Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Baccalaureate degree from an accredited institution.
- Undergraduate Statistics course.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue/ problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a graduate adviser to discuss your academic goals. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$100 per certificate program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Health Care Simulation Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Apr 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Mindi Anderson PhD, ARNP, CPNP-PC, CNE, CHSE-A, ANEF, FAAN

Professor and Program Director of Health Care Simulation Programs

mindi.anderson@ucf.edu

Telephone: 407-823-1956

UTWR 455

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Health Information Administration Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Health Management and Informatics	
Program Website: https://ccie.ucf.edu/health-information-administration/	

Program Description

Applications to this certificate program are currently suspended for the Spring 2018 semester.

The Department of Health Management and Informatics offers a Health Information Administration Graduate Certificate program that requires 20 credit hours of graduate coursework. This program is designed to meet the growing demand for highly trained health care information management professionals. Admission is only open to those in the UCF MS in Health Care Informatics program.

Admission is only open to graduates of the UCF MS in Health Care Informatics or students currently admitted to the UCF MS in Health Care Informatics program. Prerequisites in Anatomy and Physiology I and II are required for current students and graduates of the MS-HCI degree program before enrolling in the graduate certificate program.

The Health Information Administration graduate certificate program is offered online in a distance-learning cohort format for easy access

and convenience by working professionals. Applications and admissions are accepted twice per year for fall and spring terms, beginning no earlier than the second year of the student's Healthcare Informatics MS program (that is, fall of the student's second year of MS study).

The successful completion of the Health Care Informatics MS and Health Information Administration Graduate Certificate programs enables students to sit for the RHIA (Registered Healthcare Information Administrator) certification examination.

Please note: This program may be completed online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. See <http://ucf.edu/online> for more information.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Graduate Certificate in Health Information Administration requires 20 credit hours of graduate study in addition to enrollment in the MS in Health Care Informatics program. Courses are offered online as a cohort program with all students completing two courses per semester. All students must take the courses in the prescribed sequence. Visit the program website (see above) for the program cohort schedule.

Total Credit Hours Required: 20 Credit Hours Minimum beyond the Master's Degree

Prerequisites

The following prerequisites are required for consideration of admission to the graduate certificate program:

- Anatomy and Physiology I and II

Required Courses: 20 Credit Hours

- HIM 6293 - Health Care Coding and Diagnosis **4 Credit Hours**

- HSA 6189 - Health Care Procedural Coding and Reimbursement **4 Credit Hours**
- HSA 6752 - Health Care Analytics **4 Credit Hours**
- HSA 6759 - Health Care Outcomes Management **4 Credit Hours**
- HSA 6179 - Financial Accounting for Health Care Managers **4 Credit Hours**

Cost Per Credit Hour

For the Graduate Certificate in Health Information Administration program, the cost per credit hour is \$772.69.*

*Fee is subject to change

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
 - Goal statement indicating how the RHIA Graduate Certificate will enhance career goals or why the applicant wants to pursue this certification (at least 1 page, doubled-spaced, 12 pt).
 - Résumé (no longer than two pages).
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation and TOEFL scores. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Admission to the program is competitive, based on evaluation of the applicant's abilities, past academic performance, work experience, and the match of the program with career goals. The RHIA Graduate Certificate program accepts the most qualified Masters in HCI students. Not all students who apply may be accepted, even if minimum requirements are met. Furthermore, personal phone interviews may be used as part of the evaluation process.

Contact Info

Graduate Program

Alice Noblin
Lecturer
Alice.Noblin@ucf.edu
Telephone: 407-823-2353
HPA2 210D

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Healthcare Systems Engineering Graduate Certificate ►

College: Engineering and Computer Science	Degree: Certificate
Department: Industrial Engineering and Management System	
Program Website: https://www.ucf.edu/online/degree/healthcare-systems-engineering/	

Program Description

The Healthcare Systems Engineering Graduate Certificate is a fully online degree program designed to be completed within one year. This 15-credit-hour program trains students to implement, manage and introduce systematic changes to improve patient care and enhance utilization of organizational resources. This unique program is offered in response to the growing needs of the healthcare industry.

Students will receive a Certificate, offered by the Department of Industrial Engineering and Management Sciences at the College of

Engineering and Computer Science, in the Healthcare Systems Engineering Track.

This degree can help students realize their leadership potential, fuel their passion for healthcare innovation, and provide the necessary tools needed to make this systemic change a reality. Through the ideology and principles of systems engineering taught in this degree, individuals learn the specialized skills needed to foster operational change within healthcare organizations.

By completion, students will be able to help healthcare organizations to:

- Conduct analyses of large-scale social and ecological systems across the healthcare sector
- Assess and mitigate risks throughout organizational processes and relationships
- Analyze risks to individual and public health impacted by issues in the healthcare system
- Bring evidence-based thinking and analysis to process and system change
- Develop and manage a quality management system across an organizational setting
- Adapt information systems to improve management planning and control

Sampling of career opportunities include:

- Healthcare Management Engineer
- Operational Excellence Project Manager
- Systems Redesign Consultant
- Lean Specialist
- Process Improvement Consultant
- Continuous Improvement Specialist
- Healthcare Analyst

Please note: Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Healthcare Systems Engineering Graduate Certificate requires 15 credit hours of courses beyond the bachelor's degree.

For information about the program, please contact the HSE Director Dr. Vernet Lasrado (vernet.lasrado@ucf.edu).

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Prerequisites

An undergraduate course in probability and statistics

Required Courses: 9 Credit Hours

All of the following courses are required for completion of the Healthcare Systems Engineering Graduate Certificate.

- EIN 5115 - Engineering MIS Control Systems in Healthcare **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- HSC 6636 - Issues and Trends in the Health Professions **3 Credit Hours**

Elective Course 1: 3 Credit Hours

One of the two of the following courses is required for completion of the Healthcare Systems Engineering Graduate Certificate.

- ESI 6609 - Industrial Engineering Analytics for Healthcare **3 Credit Hours**
- EIN 6358 - Engineering Economic Analysis in Health Systems **3 Credit Hours**

Elective Course 2: 3 Credit hours

One of the two of the following courses is required for completion of the Healthcare Systems Engineering Graduate Certificate.

- ESI 6251C - Engineering Quality in Health Systems **3 Credit Hours**
- ESI 6252C - Managing Engineering Risk in Health Systems **3 Credit Hours**

Cost Per Credit Hour

For both in-state and out-of-state students, the cost is \$1,239.16 per credit hour which includes tuition and fees.

*Fee subject to change.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vita
- Goal statement
- The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a graduate certificate in Industrial Engineering. Future educational and career goals after the completion of the applicant's certificate study should be discussed. The goal statement should be between 500 and 1,000 words.
- International Students
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
 - Given the fully online nature of this degree program, International students will not receive an F1 visa, hence you will not take this degree program in the US. International students are free to take this degree program from their home or any country besides the US.
 - Applications are accepted for the fall and spring terms only.
 - Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Application Deadlines

Healthcare Systems Engineering	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Vernet Lasrado PhD

Director, HSE MS Track
vernet.lasrado@ucf.edu
Telephone: 404-769-5264
Engineering II, Room 312

Ahmad Elshennawy PhD

Professor
ahmade@ucf.edu
Telephone: 407-823-2204
Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Graduate Fellowships

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
<https://funding.graduate.ucf.edu>

Graduate Financial Aid

UCF Student Financial Assistance

Millican Hall 120

Telephone: 407-823-2827

Appointment Line: 407-823-5285

Fax: 407-823-5241

finaid@ucf.edu

<http://finaid.ucf.edu>

Hospitality and Tourism Technologies Graduate Certificate



College: Hospitality Management

Program Websites: <http://www.hospitality.ucf.edu/>

Graduate Program Handbook

Program Description

The Graduate Certificate in Hospitality and Tourism Technologies provides knowledge and information that facilitates the effective use of existing and emerging technologies in the marketing and management of hospitality and tourism products, services, experiences and electronic channels of distribution. The certificate covers the development, use, and future of hospitality and tourism technologies, the critical role played by social media as a strategy for differentiation, business development and new product/experience development, and the major perspectives and concepts associated with digital marketing and big data management.

Students learn to synthesize theory and application at the graduate level in order to produce the knowledge base necessary to fully utilize available technological and social media techniques and strategies in the hospitality and tourism industries. Students successfully completing this certificate are likely to be employed in any area of hospitality and tourism that incorporates online booking and reservation systems, e-intermediaries, online travel agencies, digital marketing agencies, social media organizations, destination marketing, hospitality marketing etc.

Please note: This program may be completed online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. See <http://ucf.edu/online> for more information.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters.

Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

The Graduate Certificate in Hospitality and Tourism Technologies is comprised of three required three-credit courses, nine credits in total.

Total Credit Hours Required: 9 Credit Hours Minimum Beyond the Bachelor's Degree

Required Courses—9 Credit Hours

Although HMG 6446 - Hospitality/Tourism Information Technology may serve as a prerequisite for the two remaining courses that comprise the certificate, the order of courses taken is at the discretion of the Graduate Programs' Director and will be determined by the students' previous professional and academic experience. A number of sections of each course are available throughout the year with students able to commence in the Fall, Spring or Summer semester. One course, and sometimes more, are offered each term.

- HMG 6446 - Hospitality/Tourism Information Technology **3 Credit Hours**
- HMG 6556 - Digital Marketing and Big Data Management for Hospitality and Tourism **3 Credit Hours**
- HMG 6565 - Social Media in Hospitality and Tourism **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to the above application requirements, all applicants to this certificate program will be required to submit:

- One official transcript (in a sealed envelope) from each college/university attended.
 - Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
 - Résumé.
 - The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- These documents must be attached to the application. The goal statement should address the applicant's interest in pursuing the certificate program and fully discuss any experience that he or she has had in the field. A minimum of 2 years of full-time post-undergraduate work experience is required for admission.

Application Deadlines

Hospitality and Tourism Technologies Graduate Certificate	*Fall Priority	Fall	S
Domestic Applicants		Jul 1	D
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

David Kwun PhD

Associate Professor, MS Programs Coordinator
 David.Kwun@ucf.edu
 Telephone: 407-903-8190
 RCHM 277

Kathy Henry MPA

Assistant Director, Graduate Programs Academic Adviser
 Kathy.Henry@ucf.edu
 Telephone: 407-903-8024
 RCHM 102C

Ricarya Jackson

Administrative Assistant Graduate Programs
Ricarya.Jackson@ucf.edu
Telephone: 407-903-8196
RCHM 102C

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Housing and Residence Life Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Educational Leadership and Higher Education	
Program Website: https://ccie.ucf.edu/elhe/	

Program Description

The housing and residence life leadership graduate certificate is designed to prepare individuals to become leaders and professionals in the residence life profession. It will expand their knowledge of topics relevant to residence life including student development theory, student personnel services, the first-year college experience, diversity issues, and legal and ethical issues in student services. Additionally, individuals will develop their own leadership skills as well as curriculum development for programs involving students in

residence at colleges and universities. A practical internship is required to allow hands on field experience in housing and residence life.

Curriculum

The Graduate Certificate in Housing and Residence Life requires 16 credit hours.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—6 Credit Hours

Students will complete two (2) required courses:

- EDH 6047 - Theories of College Student Development **3 Credit Hours**
- EDH 6634 - Student Personnel Services in Higher Education **3 Credit Hours**

Elective Courses—9 Credit Hours

Students will complete their choice of three (3) electives:

- EDH 6045 - First Year College Experience **3 Credit Hours**
- EDH 6046 - Diversity in Higher Education **3 Credit Hours**
- EDH 6204 - Leadership in College Organizations **3 Credit Hours**
- EDH 6215 - The College Curriculum **3 Credit Hours**
- EDH 6407 - Ethical and Legal Issues in Student Personnel **3 Credit Hours**

Internship

Internship -Students will complete a 1 credit hour internship (15-20 hours) in a residence life position or a closely related position approved by the faculty advisor.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Housing and Residence Life Graduate Certificate	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1	Dec 1	Apr 1
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Contact Info

Graduate Program

Thomas Cox EdD
thomas.cox@ucf.edu
 ED 315Q

Graduate Admissions

TBA
gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
 UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes
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 TOEFL: 5233
 ETS PPI: 5233

Initial Teacher Professional Preparation Graduate Certificate ►

College: Community Innovation and Education

Degree: CRT

Department: School of Teacher Education

Program Websites: <https://ccie.ucf.edu/teachered/secondaryed/initial-teacher-professional-pr>

Program Description

The Graduate Certificate in Initial Teacher Professional Preparation is designed for students who have secured a teaching position, plan to obtain a teaching position, or have a temporary teaching certificate. The certificate prepares candidates to meet the State of Florida Department of Education requirements through a sequence of professional core courses. These courses include uploading key assignments using the Via™ by Watermark platform and are assessed by faculty to provide evidence of candidate proficiency in all Florida Educator Accomplished Practices (FEAPs). The goal of the certificate is to enable educators to have successful teaching experiences in grades 6-12 classrooms. Students may enroll in the Initial Teacher Professional Preparation certificate and apply to be accepted to the Teacher Education MAT program either concurrently or after earning the certificate.

The Initial Teacher Professional Preparation Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Initial-Teacher-Prep-GC.pdf>.

Please note: Initial Teacher Preparation Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Initial Teacher Professional Preparation graduate certificate, students complete six courses (18 credit hours total), including five required courses (15 credit hours) and at least one special methods course (3 credit hours).

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See <https://ccie.ucf.edu/explore-via/>.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

All of the required courses are available online and must be taken at UCF.

- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours** or
- LAE 5496 - Disciplinary Literacy in the Content Areas **3 Credit Hours**

Co-requisite—3 Credit Hours Minimum

Option 1:

- EEX 5051 - Exceptional Children in the Schools **3 Credit Hours** (This is not a certification course.)
- Other elective as approved by advisor.

Option 2:

Special Methods Course selection depends on the student's intended certification area. Equivalent courses from other accredited Florida State Institutions may be used to satisfy this requirement at the discretion of the Program Director.

Students are advised to obtain permission in advance of registering for these courses.

- ARE 5359 - Teaching Art K-12 **4 Credit Hours**
- FLE 5345 - Teaching World Languages in K-12 Schools **3 Credit Hours**
- LAE 5346 - Methods of Teaching English Language Arts **3 Credit Hours**
- MAE 5327 - Teaching Middle School Mathematics **3 Credit Hours**
- MAE 5336 - Current Methods in Secondary School Mathematics **3 Credit Hours**
- MUE 5348C - K-12 Music Methods **4 Credit Hours**
- SCE 5325 - Teaching Middle School Science **3 Credit Hours**
- SCE 5337 - Issues and Methods in Secondary School Science **3 Credit Hours**

- SSE 5790 - Inquiry and Instructional Analysis in Social Science Education **3 Credit Hours**
- BTE 6935 - Seminar in Business Education **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Initial Teacher Professional Preparation Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Regina "Gina" Gresham
 Associate Professor
 Gina.Gresham@ucf.edu
 Telephone: 407-823-3550
 Education 123J

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address
 UCF College of Graduate Studies
 Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Instructional Design for Simulations Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Websites: https://ccie.ucf.edu/lser/instructional-design-and-technology/	

Program Description

The Graduate Certificate in Instructional Design for Simulations prepares educators, instructional designers, and human resource and training specialists in corporate, industry and educational settings to work with engineers, graphic artists, computer programmers, and game developers to design training and instructional systems.

Training and educational programs are now incorporating stand-alone and PC-based simulations and instructional (video) games to enhance human motivation and performance. The result has been a growing demand for simulation and game-based training and instructional systems in corporate, government and education sectors. The Graduate Certificate in Instructional Design for Simulations provides an interdisciplinary approach to prepare educators, instructional designers, and human resource and training specialists in corporate, industry and educational settings to work with engineers, graphic artists, computer programmers, and game developers to design training and instructional systems, focusing on the pedagogical aspects of stand-alone and PC-based desktop training and educational simulations and games.

Please note: Instructional Design for Simulations Graduate Certificate may be completed fully online, although not all program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for

international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Instructional Design for Simulations certificate, students complete five required courses (15 credit hours total). The recommended plan of study, noting when each course is offered, is provided on the Instructional Technology program website under **Plans of Study** for professional certificates.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

- EME 6613 - Instructional System Design **3 Credit Hours**
- DIG 6432 - Transmedia Story Creation **3 Credit Hours**
- EME 6938 - Story Design for Instruction
- IDS 5142 - Modeling and Simulation for Instructional Design **3 Credit Hours** or
- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Instructional Design for Simulations Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Atsusi Hirumi PhD

Associate Professor

hirumi@ucf.edu

ED 320-F

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Instructional Design Graduate Certificate ►

College: Community Innovation and Education

Degree: CRT

Department: Learning Sciences and Educational Research

Program Websites: <https://ccie.ucf.edu/lser/instructional-design-and-technology/>

Program Description

The Graduate Certificate in Instructional Design prepares educators, instructional designers, and human resource and training specialists in corporate, industry, and educational settings to design training, professional development, or other instructional materials.

The certificate provides an opportunity for study and professional training and development of the design and development skills necessary to become an instructional designer in varied fields. The certificate requires substantial independent thinking and emphasis is placed on the cultivation of scholarly attitudes and methods.

Please note: Instructional Design Graduate Certificate may be completed fully online, although not all program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

All courses are taught online and many will also be offered on a flexible schedule at the Orlando campus. The Instructional Design graduate certificate requires five courses (15 credit hours total).

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

- EME 6613 - Instructional System Design **3 Credit Hours**
- EME 6226 - Instructional Development and Evaluation **3 Credit Hours**
- EME 6607 - Planned Change in Instructional Technology **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6705 - Administration of Instructional Systems **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Instructional Design Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Atsusi Hirumi PhD
 Professor
 atsusi.hirumi@ucf.edu
 ED 320-F

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Instructional/Educational Technology Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/instructional-design-and-technology	

Program Description

The Graduate Certificate in Instructional/Educational Technology provides teachers with the knowledge and training to apply technological tools to the learning process.

The Graduate Certificate in Instructional/Educational Technology provides an opportunity for study and professional training and development of the leadership skills necessary to become educational technology specialists in K-12 schools. The certificate requires substantial independent thinking and emphasis is placed on the cultivation of scholarly attitudes and methods while assisting students in meeting the requirements for the State of Florida Teacher Certification. In addition, students will learn the subject matter needed to meet the National Educational Technology Standards for Teachers developed by the International Society for Technology in Education (ISTE).

Please note: Instructional/Educational Technology Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

Several courses are taught online and other courses will be offered on a flexible schedule at the Orlando campus. The Instructional/

Educational Technology certificate requires five courses (15 credit hours total).

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

- EME 6613 - Instructional System Design **3 Credit Hours**
- EME 6053 - Teaching and Learning with Emerging Technologies **3 Credit Hours**
- EME 6405 - Adapting and Integrating Innovative Technologies in Education **3 Credit Hours**
- EME 6507 - Multimedia for Education and Training **3 Credit Hours**
- EME 6602 - Integration of Technology into the Learning Environments **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Instructional / Educational Technology Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Richard Hartshorne PhD
 Professor
richard.hartshorne@ucf.edu
 Telephone: 407-823-1861
 ED 209-E

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Intelligence and National Security Graduate Certificate

College: Sciences

Department: School of Politics, Security and International Affairs

Program Description

The Graduate Certificate in Intelligence and National Security provides an interdisciplinary graduate education for people engaged in or seeking professional careers in intelligence policy with a focus on analysis of security threats or crises, both domestic and international, through use of human, electronic and public domain intelligence sources.

In addition, students will be introduced to various analytic approaches including game theory, network analysis, nonintrusive measurement, geospatial approaches and quantitative analysis.

Graduates are prepared to perform "key functions including conducting research and gathering information, identifying intelligence gaps, interpreting and evaluating information from multiple (and sometimes contradictory) sources, monitoring trends and events related to a particular country or issue, and preparing written and oral assessments." This expectation comes from the job

description for an intelligence analyst established by the federal government at www.intelligence.gov/careers-in-intelligence/analysis.html.

Curriculum

The certificate in Intelligence and National Security consists of 18 credit hours at the graduate level, including two required core courses and four electives.

Course substitutions, with the exception of approved geographic area courses, are not allowed and a course may not apply toward more than one certificate program. Students must earn course grades of "B-" or better to get credit toward the certificate. For further Graduate Certificate Policies visit <https://graduate.ucf.edu/graduate-certificate-policy/>.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—6 Credit Hours

All students must take the following courses.

Take one of these five courses:

- POS 6736 - Conduct of Political Inquiry **3 Credit Hours**
- POS 6746 - Quantitative Methods in Political Research **3 Credit Hours**
- POS 7745 - Advanced Quantitative Methods in Political Research **3 Credit Hours**
- CCJ 6704 - Research Methods in Criminal Justice **3 Credit Hours**
- CCJ 7708 - Advanced Quantitative Methods for Criminal Justice Research **3 Credit Hours**

Take one of these two courses:

- INR 6365 - Seminar on Intelligence **3 Credit Hours**
- INR 6366 - The Intelligence Community **3 Credit Hours**

Restricted Electives—12 Credit Hours

All students take **four** of the following courses. Students can substitute up to two geographic area courses as part of their four-course elective area with approval of the certificate program director.

- POS 6686 - National Security Law **3 Credit Hours**
- POS 6743 - Geographic Tools for Political Science Research **3 Credit Hours**

- CPO 6058 - Revolution and Political Violence **3 Credit Hours**
- CPO 6206 - Comparative Politics of Africa **3 Credit Hours**
- CPO 6307 - Issues in Latin American Politics **3 Credit Hours**
- CPO 6407 - Comparative Politics of the Middle East **3 Credit Hours**
- CPO 6729 - Global Security in the Age of Migration **3 Credit Hours**
- INR 6062 - Peace Studies **3 Credit Hours**
- INR 6065 - Seminar on War **3 Credit Hours**
- INR 6068 - Politics of Civil Wars **3 Credit Hours**
- INR 6108 - Seminar in American Foreign Policy **3 Credit Hours**
- INR 6136 - Seminar in American Security Policy **3 Credit Hours**
- INR 6137 - Terrorism and Politics **3 Credit Hours**
- INR 6254 - International Relations of Africa **3 Credit Hours**
- INR 6275 - International Politics of the Middle East **3 Credit Hours**
- INR 6339 - Strategic Warning Analysis **3 Credit Hours**
- INR 6346 - Politics of International Terrorism **3 Credit Hours**
- INR 6356 - Environmental Security **3 Credit Hours**
- INR 6726 - Political Behavior in International Conflict **3 Credit Hours**
- CCJ 6027 - Criminal Justice Responses to Terrorism **3 Credit Hours**
- CCJ 6067 - Perspectives on Genocide **3 Credit Hours**
- CCJ 6074 - Investigative and Intelligence Analysis: Theory and Methods **3 Credit Hours**
- CJE 6688 - Cyber Crime and Criminal Justice **3 Credit Hours**

Application Requirements

A bachelor's degree from a regionally-accredited institution is required for admission into the graduate certificate program.

Applicants who have been admitted to a degree-seeking graduate program at UCF may apply for admission to the certificate program through the UCF graduate school online portal.

Other interested applicants must contact the Certificate Advisor to inquire about admission to the certificate program prior to applying.

Applicants must **apply online**. All requested material must be submitted prior to the deadline; materials received after the deadline may not be considered. Admission to this certificate program is competitive; applicants are not guaranteed admission.

All applicants to this certificate program will be required to submit:

- A current professional resume

- An academic goal statement addressing the applicant's interest in pursuing the certificate program, career goals, and any experience that he or she has had in the field.
- An official transcript from each college/university attended.

Application Deadlines

Intelligence and National Security Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Andrew Boutton
 Assistant Professor
 andrew.boutton@ucf.edu
 Telephone: 407-823-2608
 HPH 305C

Graduate Admissions

Anthony Tufano
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Interdisciplinary Language and Literacy Intervention Graduate Certificate ♦

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Websites: https://ccie.ucf.edu/teachered/exceptional-student-education/	

Program Description

The Interdisciplinary Language and Literacy Intervention graduate certificate provides advanced coursework focused on evidence-based knowledge, skills, and resources for individuals who work with students who have high-intensity needs. This collaborative and inter-professional graduate certificate address competencies for an intervention specialist from the Council for Exceptional Students (CEC) and from the American Speech-Language-Hearing Association (ASHA). This certificate is designed to meet the needs of educators and speech-language pathologists who use school-based and classroom instructional data to meet the instructional and intervention needs of all students, including students with high-intensity needs, beyond the typical, initial classroom instruction within a multi-tiered system of supports.

This certificate will provide an advanced, multi-disciplinary theoretical approach and applied knowledge base to experienced educators and speech-language pathologists.

Coursework focuses on knowledge, skills and competencies for professionals working with students within an intervention framework. The Interdisciplinary Language and Literacy Intervention certificate is a multi-disciplinary approach and includes competencies from exceptional student education, communication disorders, reading education, and English as a Second Language (ESOL) education. The graduate courses provide an opportunity for students to complete the Interdisciplinary Language and Literacy Intervention graduate certificate beyond the undergraduate degree. Should a student wish to earn a master's degree, education specialist degree, or doctoral degree, the courses in the certificate could be applied to one of several degree programs in the College of Community Innovation and Education or in the School of Communication Sciences and Disorders (housed in the College of Health Professions and Sciences) with the permission of their advisor.

Curriculum

The Interdisciplinary Language and Literacy Intervention certificate requires four courses (12 credit hours total).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- EEX 6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education **3 Credit Hours**
- IDS 6657 - Professional Collaboration in Language and Literacy **3 Credit Hours**
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours**
- SPA 6843 - Severe Language-Based Reading and Writing Disabilities **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". The information provided in the link below is the best that is available to us. This information represents one year's data only, however, we hope that this information is helpful to current and prospective students, as you make your career and educational choices.

Application Deadlines

Interdisciplinary Language and Literacy Intervention Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Mary Little PhD

Dena Slanda PhD

Exceptional Student Education

Linda I. Rosa-Lugo EdD

College of Health Professions and Sciences

School of Communication Sciences and Disorders

ProjectSPEECH@ucf.edu

Telephone: 407-823-4351

HPA 2-110

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Juvenile Justice Leadership

Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Criminal Justice	
Program Website: https://ccie.ucf.edu/criminaljustice/	

Program Description

The Graduate Certificate in Juvenile Justice Leadership is designed to provide students with theoretical and practical knowledge in the areas of criminal justice, public administration, and social work.

The juvenile justice system, long understaffed, is facing the continuing problem of increased juvenile crime, high levels of juvenile drug and substance abuse, and debatable programs to rehabilitate delinquent children. Juvenile Justice Leadership is one of the fastest growing career fields in Criminal Justice.

Please note: Juvenile Justice Leadership Graduate Certificate may be completed fully online, although not all elective options may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters and be part of another degree seeking program. Only 3 of the 9 credit hours may be taken in a completely online format. International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before applying. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The curriculum for the Juvenile Justice Leadership certificate program consists of two required courses and two elective courses for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

- CJJ 6020 - The Juvenile Justice System **3 Credit Hours**
- CCJ 6118 - Criminal Justice Organizations **3 Credit Hours**

Elective Course: 6 Credit Hours

Choose two of the following courses.

- CCJ 5015 - The Nature of Crime **3 Credit Hours**
- CCJ 6073 - Data Management Systems for Crime Analysis **3 Credit Hours** (offered fall term only)

- CCJ 5456 - The Administration of Justice **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**
- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- SOW 6712 - Clinical Social Work Practice with Substance Addictions **3 Credit Hours**
- SOW 6655 - Child Abuse: Treatment and Prevention **3 Credit Hours**
- SYP 6561 - Child Abuse in Society **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Juvenile Justice Leadership Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Eugene Paoline, III PhD

Professor
 Eugene.Paoline@ucf.edu
 Telephone: 407-823-2603
 HPA 1, RM 321

Elaxis Ritz

elaxis.ritz@ucf.edu
 Telephone: 407-823-6093
 HPA 311

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Local Director of Career and Technical Education Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Educational Leadership and Higher Education	
Program Website: https://ccie.ucf.edu/elhe/career-and-technical-education/	

Program Description

The **Local Director of Career and Technical Education Graduate Certificate** is an online, flexible, short term program of study that focuses on career and technical education and workforce training administration, supervision, and management competencies. The Certificate is designed for career and technical education (CTE) teachers or corporate trainers with a bachelor's degree who wish to advance their career as a:

- CTE/workforce program director
- CTE/workforce program coordinator
- CTE/workforce manager
- education development, talent development, organizational development, technical/workforce training
- CTE/workforce education consultant

- CTE/workforce learning and development specialist
- CTE/workforce supervisor
- or other CTE/workforce administrator-type position.

It is also for students interested in advancing their knowledge in CTE professional education coursework.

This certificate may also, in part, prepare candidates to meet a portion of the State of Florida Department of Education Certification in Local Director of Career and Technical Education coursework requirements. Other requirements for the Florida DOE certification are noted on the FL DOE website.

Please note: Local Director of Career and Technical Education may be completed fully online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is authorized to provide online courses or instruction to students in all states. Refer to State Authorizations for current information.

*This graduate certificate is not an initial professional education certificate program.

Curriculum

For the Local Director of Career and Technical Education Graduate Certificate, students must complete all five courses (15 credit hours total) as listed below.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

All of the required courses are available online and must be taken at UCF.

- ECW 5207 - Management of Career Education Programs **3 Credit Hours**
- ECW 6105 - Career Education Curriculum Planning and Implementation **3 Credit Hours**
- ECW 6205 - Administration of Local Career Education Programs **3 Credit Hours**
- ECW 6206 - Supervision in Local Career and Technical Education Programs **3 Credit Hours**

- ECW 6695 - School/Community Relations for Career and Technical Education Programs **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline. Review the Graduate Certificate Admission Requirements for more information.

Application Deadlines

Local Director of Career and Technical Education Graduate Certificate	*Fall Priority	Fall	Sp
Domestic Applicants		Jul 1	De
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Lisa Martino, PhD

Lecturer, CTE Academic Program Coordinator

lisa.martino@ucf.edu

Telephone: 407-823-6184

ED 220C

Graduate Admissions

TBD

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Marriage, Couple, and Family Therapy Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Counselor Education and School Psychology	
Program Websites: https://ccie.ucf.edu/counselored/	

Program Description

This program has temporarily suspended admissions effective Spring 2020

The Graduate Certificate in Marriage, Couple and Family Therapy is housed within the Counselor Education Program in the College of Community Innovation and Education. The certificate program is designed to provide advanced training to students in the Counselor Education and Social Work programs and for practicing counselors and therapists working with families, couples, and children.

The certificate requires the completion of five graduate courses addressing family systems, working with couples and family therapy theory, and counseling techniques. For many counselors, this certificate will fulfill the academic requirements in order to apply to the Florida Department of Medical Quality Assurance for licensure as a Marriage and Family Therapist. Applicants considering this certificate program should contact their State Licensure Board to verify the courses required. The Marriage, Couple, and Family Therapy Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Marriage-Couple-Family-Therapy-GC.pdf>.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF

Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing annual services to over 1,400 individuals, couples, and families in the central Florida community.

Master's students in the School of Social Work can also obtain the Graduate Certificate in Marriage, Couple and Family Therapy by taking the required courses for Social Work students, which include content about family theory and assessment and counseling with families as well as a field component. Information about Social Work courses and field courses can be obtained through the School of Social Work.

Curriculum

The Graduate Certificate in Marriage, Couple and Family Therapy requires 15 credit hours. The Practicum in Counselor Education (MHS 6803) and the Counseling Internship (MHS 6830) must be taken in separate semesters. Among the total hours accumulated in these clinical experiences, at least 180 hours of direct client contact must be dedicated to working with couples, families, and unmarried dyads. For Social Work students, the certificate requires 17 credit hours, enrollment in either the part-time or full-time Clinical Field Seminar is acceptable, and all coursework is specific to Social Work.

Total Credit Hours Required: 15-17 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

- MHS 6430 - Family Counseling I **3 Credit Hours**
- MHS 6431 - Family Counseling II **3 Credit Hours**
- MHS 6440 - Couples Counseling **3 Credit Hours**
- MHS 6803 - Practicum in Counselor Education **3 Credit Hours**
- MHS 6830 - Counseling Internship **1-6 Credit Hours**

Required Courses for Social Work Students: 17 Credit Hours

- SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6531 - Full Time MSW Clinical Field Integrative Seminar I **2 Credit Hours** **
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
- SOW 6536 - Full Time MSW Clinical Field Education and Seminar II **4 Credit Hours** **
- MHS 6440 - Couples Counseling **3 Credit Hours**

Part-time clinical courses

**For this certificate program, the following part-time clinical courses meet the 8 hour field seminar sequence:

- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II **1 Credit Hours**
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III **1 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**
- 1st Semester **2 Credit Hours**
- 2nd Semester **1 Credit Hour**
- 3rd Semester **1 Credit Hour**

Application Requirements

Admission is open to students currently enrolled in graduate Counseling, Psychology or Social Work programs at UCF. Applicants must apply online to the graduate certificate program and official transcripts must be submitted. All requested materials must be submitted by the established deadline.

Application Deadlines

Marriage, Couple, and Family Therapy Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Sejal Barden PhD
Assistant Professor
Sejal.Barden@ucf.edu
Telephone: 407-823-6106
ED 322H

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Mathematical Science Graduate Certificate ►

College: Sciences

Department: Mathematics

Program Websites: <http://math.ucf.edu>

Program Description

The Graduate Certificate in Mathematical Science is designed to prepare students to teach college-level mathematics in high schools or colleges.

All required courses will be offered to accommodate distance learning by posting recorded lectures and offering scheduled online problem sessions and office hours.

Please note: Mathematical Science Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters.

Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Mathematical Science certificate requires six graduate courses (18 credit hours), including 9 credit hours of required courses and 9 credit hours of elective courses.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

Students choose three of the following courses.

- MAA 5210 - Topics in Advanced Calculus **3 Credit Hours**
- MAS 5145 - Advanced Linear Algebra and Matrix Theory **3 Credit Hours**
- MTG 5253 - Introduction to Differential Geometry **3 Credit Hours**
- MAA 6405 - Complex Variables **3 Credit Hours**
- MAT 5712 - Scientific Computing **3 Credit Hours**
- MAP 5426 - Special Functions **3 Credit Hours**

Elective Courses: 9 Credit Hours

Students should take three graduate-level courses offered by the Department of Mathematics and/or the Department of Statistics at UCF, with at most two elective courses from the Department of Statistics.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Mathematical Science Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Qiyu Sun
 Professor
 qiyu.sun@ucf.edu
 Telephone: 407-823-4839
 PO Box 161364

Graduate Admissions

Anthony Tufano
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Medical Speech-Language Pathology Graduate Certificate

College: Health Professions and Sciences	Degree: CRT
Department: Communication Sciences and Disorders	
Program Websites: https://healthprofessions.ucf.edu/csd/	

Program Description

This certificate program has been temporarily suspended effective Summer 2016.

The UCF School of Communication Sciences and Disorders (CSD) Graduate Certificate in Medical Speech-Language Pathology is designed to prepare speech language pathologists and students currently enrolled in the CSD program with the knowledge and skills necessary to evaluate and treat individuals with medically-related communication disorders.

Curriculum

Current UCF CSD graduate students: 12 credit hours total (3 courses selected from the list below). Students currently enrolled in the UCF Communication Sciences and Disorders MA program are required to take 9 credit hours in addition to SPA 6565 - Feeding and Swallowing Disorders, which is required to fulfill the regular degree requirements.

Certificate only, for speech language pathologists (professionals): 12 credit hours (4 courses to be selected from the list below). SPA 6565 - Feeding and Swallowing Disorders is a required course toward this certificate if the student has not previously taken a course in Feeding and Swallowing Disorders at the graduate level. All courses toward the Medical Speech-Language Pathology Certificate program should be selected in consultation with the Master's Program Coordinator and medical certificate faculty adviser, Dr. Bari Ruddy.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Master's Degree

Required Courses: 12 Credit Hours

Complete four of the following six courses:

- SPA 6245 - Communication Disorders in Cleft Palate-Velopharyngeal Dysfunction **3 Credit Hours**
- SPA 6417 - Cognitive/Communicative Disorders **3 Credit Hours**
- SPA 6565 - Feeding and Swallowing Disorders **3 Credit Hours**

- SPA 6453 - Management of Cognitive-Communication Disorders in Traumatic Brain Injury **3 Credit Hours**
- SPA 6432 - Issues in Autism **3 Credit Hours**
- SPA 6569 - Management of Upper Airway and Aerodigestive Disorders **3 Credit Hours**

Note:

- Courses from a previous graduate degree program or certificate program cannot be applied toward the completion of the Certificate in Medical Speech-Language Pathology.
- Current students in UCF's Communication Sciences and Disorders MA program may only apply SPA 6565 - Feeding and Swallowing Disorders toward both the Medical Speech-Language Pathology Certificate and the master's degree in communication sciences and disorders. Nine credit hours will need to be taken in addition to the regular master's program course requirements.

Application Requirements

Admission is open to those with a master's degree in speech-language pathology from a regionally accredited institution and UCF graduate students currently enrolled in the Communication Sciences and Disorders MA program. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Contact Info

Graduate Program

Anthony Pak-Hin Kong, PhD

Associate Professor

csdgraduate@ucf.edu

Telephone: 407-823-4798

HPA2 101

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Military Social Work Graduate Certificate

College: Health Professions and Sciences	Degree: CRT
Department: School of Social Work	
Program Websites: https://healthprofessions.ucf.edu/socialwork/	

Program Description

Students pursuing a Master of Social Work degree may choose a specialization in military social work.

The Graduate Certificate in Military Social Work will prepare students to provide behavioral health services, including mental health counseling aimed at building psychological resilience; treatment of post-traumatic stress disorder, depression, anxiety, suicide risk assessment and prevention techniques; and family therapy for strengthening military, veterans and their families during and after deployment.

Due to the specialized tuition rate for the Online MSW track, online-only students are not permitted to enroll in any certificate programs at UCF.

Curriculum

The Military Social Work certificate is open to current UCF MSW Traditional and Advanced Standing students and a limited number of Counselor Education students only. Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

The following courses are required for the certificate but may also be used as electives in the MSW program.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—9 Credit Hours

- SOW 6149 - Military Culture and Social Work Practice 3 **Credit Hours**
- SOW 6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders 3 **Credit Hours**
- SOW 6610 - Clinical Practice with Military and Veteran Families or Groups 3 **Credit Hours**

Application Requirements

Admission is open to current students in the UCF Master of Social Work program and a limited number of students in the UCF Counselor Education master's program. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. Please submit all requested material by the established deadline(s):

- One official transcript from each college/university attended (Graduate Studies should already have on file from your MSW application).
- Personal statement for Military Social Work. Applicants should write a personal autobiographical statement that is no more than two double spaced pages. Questions to answer include: What reasons or experiences led you to decide to apply for the military social work certificate? In completing the certificate, why is working with this population of interest to you?
- Up to date résumé

Students admitted to one of the Advanced Standing Tracks—either full-time or part-time—MUST take all three courses in order to be eligible for this certificate—this means completing one additional elective as a part of their plan of study.

Students interested in admission to this certificate program should contact the MSW Admissions Specialist or by calling 407-823-3474 for more information.

Application Deadlines

Military Social Work Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Admission to the Certificate Program is rolling--applying before the deadline is encouraged.

Contact Info

Graduate Program

Maxine McGregor

Instructor, MSW Program Director
maxine.mcgregor@ucf.edu
Telephone: 407-823-3037
HPA 1 Suite 233

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
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ETS PPI: 5233

Mixed Reality Engineering Graduate Certificate ♦

College: Engineering and Computer Science

Degree: CRT

Department: Computer Science

Program Websites:

Program Description

The Graduate Certificate in Mixed Reality Engineering aims to provide students with a comprehensive overview of virtual and augmented reality technologies culminating in the development of a mixed reality software application or system.

Curriculum

The Mixed Reality Engineering certificate requires three graduate courses (9 credit hours).

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- CAP 5115 - Virtual Reality Engineering **3 Credit Hours**
- CAP 6110 - Augmented Reality Engineering **3 Credit Hours**
- CAP 6117 - Mixed Reality Project **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in computer science or a closely related discipline with a minimum GPA of 3.0. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation.

Applications are accepted for the fall and spring terms only.

Application Deadlines

Mixed Reality Engineering Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Joseph J. LaViola Jr.

Professor

jjl@cs.ucf.edu

Harris Engineering Center, Room 321

Phone: 407-882-2285

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Modeling and Simulation of Behavioral Cybersecurity Graduate Certificate

College: Graduate Studies	Degree: CRT
Department: School of Modeling, Simulation, and Training	
Program Websites: https://msgrad.ist.ucf.edu	

Program Description

The Graduate Certificate in Modeling and Simulation of Behavioral Cybersecurity provides students with an interdisciplinary modeling and simulation approach to cybersecurity with a particular emphasis on the behavioral aspects of cybersecurity and cyber operations.

This graduate certificate is beneficial to individuals who have an interest in interdisciplinary studies and problem-solving for modeling, simulation, and behavioral aspects of cybersecurity.

UCF Partnerships

The Modeling and Simulation of Behavioral Cybersecurity certificate partners with several UCF master's programs. If students complete the certificate and are accepted into a partnering program, all certificate coursework can be used toward that master's degree. Here is a list of our partnering UCF master's programs:

- Computer Engineering MSCpE
- Industrial Engineering MS ►
- Modeling and Simulation MS
- Cyber Security and Privacy MS

Curriculum

The Graduate Certificate in Modeling and Simulation of Behavioral Cybersecurity requires a total of 15 credit hours in courses in the required competency areas of Modeling and Simulation Fundamentals, Testing and Evaluation, and Modeling Techniques and Applications.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

- IDC 5602 - Cybersecurity: A Multidisciplinary Approach **3 Credit Hours** (Fall)
- CNT 5410L - Cyber Operations Lab **3 Credit Hours** (Spring)
- IDC 6600 - Emerging Cyber Issues **3 Credit Hours** (Summer)
- IDC 6601 - Behavioral Aspects of Cybersecurity **3 Credit Hours** (Summer)
- IDC 6941 - Capstone in Modeling and Simulation of Behavioral Cybersecurity **3 Credit Hours** (Fall)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae

Application Deadlines

Modeling and Simulation of Behavioral Cybersecurity Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Bruce Caulkins PhD, Colonel (Ret), US Army
 bcaulkin@ist.ucf.edu
 Telephone: 407-882-2427
 Partnership II Building, Room 319

Graduate Admissions

Anthony Tufano
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Modeling and Simulation of Technical Systems Graduate Certificate

College: Graduate Studies	Degree: CRT
Department: School of Modeling, Simulation, and Training	
Program Websites: http://www.ist.ucf.edu/grad	

PROGRAM DISCONTINUED EFFECTIVE FALL 2019

Program Description

The Graduate Certificate in Modeling and Simulation of Technical Systems provides students with the necessary knowledge in modeling and simulation fundamentals, including modeling techniques and applications, with special emphasis on modeling and simulation in testing and evaluation.

This graduate certificate is beneficial to technical professionals involved with constructing and using simulation models of dynamic systems. All courses of the certificate program will be delivered electronically via distance education. Students are required to apply to the Out-of-State Cohort Track or the In-State Cohort Track.

Program Tracks

- Modeling and Simulation of Technical Systems, In State Cohort Track Graduate Certificate
- Modeling and Simulation of Technical Systems, Out of State Cohort Track Graduate Certificate

Application Requirements

Applicants must choose a track in this program. Track(s) may have different requirements.

Contact Info

Graduate Program

R. Paul Wiegand III, PhD

Interim Program Director

wiegand@ist.ucf.edu

Telephone: 407-882-0313

PIII 209

Kirsten Seitz

Kirsten.Seitz@ucf.edu

Telephone: 407-882-1407

Partnership 2 Building, Room 131D

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Modeling and Simulation of Technical Systems, In State Cohort Track Graduate Certificate

College: Graduate Studies	Degree: CRT
Department: School of Modeling, Simulation, and Training	
Program Websites: http://www.ist.ucf.edu/grad	

PROGRAM DISCONTINUED EFFECTIVE FALL 2019

Track Description

The Graduate Certificate in Modeling and Simulation of Technical Systems provides students with the necessary knowledge in modeling and simulation fundamentals, including modeling techniques and applications, with special emphasis on modeling and simulation in testing and evaluation.

This graduate certificate is beneficial to technical professionals involved with constructing and using simulation models of dynamic systems. All courses of the certificate program will be delivered electronically via distance education.

Curriculum

Students must complete a total of 16 credit hours in courses in the required competency areas of Modeling and Simulation Fundamentals, Testing and Evaluation, and Modeling Techniques and Applications.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 16 Credit Hours

- IDS 6147 - Perspectives on Modeling and Simulation **3 Credit Hours** (Fall)
- ESI 5531 - Discrete Systems Simulation **3 Credit Hours** (Spring)
- IDS 6146 - Modeling and Simulation Systems **3 Credit Hours** (Summer)
- IDS 6950 - Modeling and Simulation Capstone Report Planning **1 Credit Hours** (Summer)
- IDS 6149 - Modeling and Simulation for Test and Evaluation **3 Credit Hours** (Fall)
- IDS 6916 - Simulation Research Methods and Practicum **3 Credit Hours** (Spring)

Cost Per Credit Hour

For the Modeling and Simulation of Technical Systems Graduate Certificate, Florida residents will follow the regular in-state tuition and fees schedule for the university.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

In State Cohort	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

R. Paul Wiegand III, PhD

Interim Program Director

wiegand@ist.ucf.edu

Telephone: 407-882-0313

PIII 209

Kirsten Seitz

Kirsten.Seitz@ucf.edu

Telephone: 407-882-1407

Partnership 2 Building, Room 131D

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Orlando, FL 32816-0112

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ETS PPI: 5233

Modeling and Simulation of Technical Systems, Out of State Cohort Track Graduate Certificate

College: Graduate Studies	Degree: CRT
Department: School of Modeling, Simulation, and Training	
Program Websites: http://www.ist.ucf.edu/grad	

PROGRAM DISCONTINUED EFFECTIVE FALL 2019

Track Description

The Graduate Certificate in Modeling and Simulation of Technical Systems provides students with the necessary knowledge in modeling and simulation fundamentals, including modeling techniques and applications, with special emphasis on modeling and simulation in testing and evaluation.

This graduate certificate is beneficial to technical professionals involved with constructing and using simulation models of dynamic systems. All courses of the certificate program will be delivered electronically via distance education.

Curriculum

Students must complete a total of 16 credit hours in courses in the required competency areas of Modeling and Simulation Fundamentals, Testing and Evaluation, and Modeling Techniques and Applications.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 16 Credit Hours

- **IDS 6147 - Perspectives on Modeling and Simulation 3 Credit Hours** (Fall)
- **ESI 5531 - Discrete Systems Simulation 3 Credit Hours** (Spring)
- **IDS 6146 - Modeling and Simulation Systems 3 Credit Hours** (Summer)
- **IDS 6950 - Modeling and Simulation Capstone Report Planning 1 Credit Hours** (Summer)
- **IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours** (Fall)
- **IDS 6916 - Simulation Research Methods and Practicum 3 Credit Hours** (Spring)

Cost Per Credit Hour

For the Modeling and Simulation of Technical Systems Graduate Certificate, the cost per credit hour is \$800.00.*

*Fee is subject to change.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Out of State Cohort	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Joseph LaViola, Jr. PhD

Assistant Professor
jjl@eecs.ucf.edu
Telephone: 407-882-2285
HEC Bldg, Room 321

Kirsten Seitz

Kirsten.Seitz@ucf.edu
Telephone: 407-882-1407
Partnership 2 Building, Room 131D

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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ETS PPI: 5233

Nonprofit Management Graduate Certificate ►

College: Community Innovation and Education

Degree: CRT

Department: School of Public Administration

Program Website: <https://ccie.ucf.edu/public-administration/nonprofit-management/>

Program Description

The Graduate Certificate in Nonprofit Management is delivered completely online and offers specialized, graduate-level knowledge in nonprofit management, resources development, strategic planning, volunteerism, and program evaluation. The certificate supports those currently working in the nonprofit sector or those looking for advancement in the nonprofit sector or in organizations that partner with the nonprofit sector.

Credits earned in the certificate program may be applied toward the Master of Nonprofit Management (MNM) degree. However, admission to the MNM degree program has separate requirements from those of the certificate program and students considering continuing into the master's degree should familiarize themselves with admissions requirements, the credit transfer policy and should consult with a faculty adviser early in their certificate program. The Graduate Certificate in Nonprofit Management requires that students complete 18 credit hours. Students must maintain at least a 3.0-grade point average in order to be awarded the Graduate Certificate. The Certificate must be completed within 7 years.

An Out-of-State Graduate Certificate in Nonprofit Management Cohort Track is also offered specifically for students who are not Florida residents and who reside outside of the state of Florida. The Out-of-State Cohort is also delivered completely online, and the curriculum is identical to the Florida resident program. Students in the cohort program pay less than half of the regular out-of-state tuition. Students interested in the Out-of-State cohort should refer to the Out-of-State Graduate Certificate in Nonprofit Management program track.

Please note: Nonprofit Management Graduate Certificate may be completed fully online, and newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Tracks

- Nonprofit Management Graduate Certificate, Out of State Cohort Track ►

Curriculum

The Graduate Certificate in Nonprofit Management program is a completely online; students in this program are expected to have the ability to complete the coursework online. The program requires a minimum of 18 credit hours beyond the bachelor's degree; consisting of 15 credit hours of core courses and 3 credit hours of a restricted elective.

The Certificate program incorporates service learning in some of its courses. Service learning involves students partnering with a local nonprofit organization of their choice to offer technical assistance in a specific area of operation that is covered in their coursework. Service Learning enhances the students' academic experience and presents opportunities for networking. The process is supervised by the instructor and provides benefits to both the organization and the student.

Some of the courses may also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 5145 - Volunteerism in Nonprofit Management **3 Credit Hours**
- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

Elective Course: 3 Credit Hours

Choose one course below.

An internship is required for students pursuing the National Nonprofit Leadership Certification. Students who provide documentation of at least 300 hours of nonprofit sector experience may have the internship waived.

National Nonprofit Leadership Certificate: The Nonprofit Leadership Alliance represents the achievements of national academic and experiential standards in nonprofit management. Students pursuing the Nonprofit Leadership Certification must meet the Nonprofit Leadership Alliance mandated requirements.

- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6237 - Ethics and Governance in Nonprofit Management **3 Credit Hours**

- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- SOW 6383 - Social Work Administration **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will also be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5 from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - What is your reason for pursuing graduate study in Nonprofit Management, including your future goals and plans?
 - What specific areas of Nonprofit Management interest you?
 - Work and/or Voluntary experience (nonprofit experience is preferred, not required)
- Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". The information provided in the link below is the best that is available to us. This information represents one year's data only, however, we hope that this information is helpful to current and prospective students, as you make your career and educational choices.

Application Deadlines

Nonprofit Management Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		July 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Young-Joo Lee, PhD

Nonprofit Management Director & Associate Professor

Young-Joo.Lee@ucf.edu

Telephone: 407-823-3693

Nasrin Lakhani, MNM

Manager Graduate Advising and Student Support

Nasrin@ucf.edu

Telephone: 407-823-0912

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Nonprofit Management Graduate Certificate, Out of State Cohort Track ►

College: Community Innovation and Education

Degree: CRT

Department: School of Public Administration

Track Description

The Out-of-State Cohort in the Graduate Certificate in Nonprofit Management is designed specifically for students who are not Florida residents and who reside outside of the state of Florida. The certificate is delivered completely online and offers specialized, graduate-level knowledge in nonprofit management, resource development, strategic planning, volunteerism, and program evaluation.

The Out-of-State Cohort in the Graduate Certificate in Nonprofit Management is designed specifically for students who are not Florida residents and who reside outside of the state of Florida. The certificate is delivered completely online and offers specialized, graduate-level knowledge in nonprofit management, resource development, strategic planning, volunteerism, and program evaluation. The certificate supports those currently working in the nonprofit sector or those looking for advancement in the nonprofit sector or in organizations that partner with the nonprofit sector. Students in the Out-of-State Cohort pay less than half of the regular out-of-state tuition. Students who are Florida residents who reside in the state of Florida should refer to the Nonprofit Management Certificate program.

Please note: Nonprofit Management Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 5145 - Volunteerism in Nonprofit Management **3 Credit Hours**
- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

Elective Course: 3 Credit Hours

Choose one course below or see the graduate program director.

- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6149 - Nonprofit Administration **3 Credit Hours**
- PAD 6167 - Graduate Nonprofit Leadership Seminar **3 Credit Hours** required for Nonprofit Leadership Certification *
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- SOW 6383 - Social Work Administration **3 Credit Hours**

Internship

An internship is also required for students with less than 300 hours of nonprofit sector experience. Students who provide documentation of at least 300 hours of experience in the nonprofit sector may have their internship waived.

National Nonprofit Leadership Certificate: The Nonprofit Leadership Alliance represents the achievements of national academic and experiential standards in nonprofit management. Students pursuing the Nonprofit Leadership Certification must complete PAD 6167 - Graduate Nonprofit Leadership Seminar as their elective and meet the Nonprofit Leadership Alliance mandated requirements.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". The information provided in the link below is the best

that is available to us. This information represents one year's data only, however, we hope that this information is helpful to current and prospective students, as you make your career and educational choices.

Gainful Employment Disclosure Information

Application Deadlines

Nonprofit Management Graduate Certificate, Out of State Cohort Track	*Fall Priority	Fall	Spring
Domestic Applicants		Jun 1	Dec 1
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Young-joo Lee, PhD

Associate Professor

Director, Nonprofit Programs

Young-joo.Lee@ucf.edu

DPAC 448C

Nasrin Lakhani, MNM

Director, Advising and Student Support

Nasrin@ucf.edu

407-823-0912

Graduate Admissions

Christina Dabrowski

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Nursing Education Graduate Certificate ►

College: Nursing

Department: Nursing

Program Websites: <http://www.nursing.ucf.edu/>

Graduate Program Handbook

Program Description

The Graduate Certificate in Nursing Education is designed to prepare nurses and other healthcare professionals to teach in professional health care education programs, health care agencies, and the community. The certificate program can be completed entirely online.

Program Objectives

- Analyze social, economic, ethical, cultural, legal and political issues influencing nursing practice and health care in a global context.
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional nursing practice and the healthcare system.
- Develop and implement leadership, management and teaching strategies for the improvement of health and healthcare.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy to improve the health of communities.

- Participate in lifelong learning activities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities and nursing theories to support an advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skills.
- Practice in an advanced nursing role.

For information on how this program may prepare you for professional licensure, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-Online-Nursing-Education-GC.pdf>.

Please note: Nursing Education Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

UCF is also an approved institution of the National Council for State Authorization Reciprocity Agreement (NC-SARA). Membership in NC-SARA requires the university to disclose information regarding state licensing and certification requirements for the selected program of study when licensing and/or certification are a requirement to practice in the profession after graduation.

While licensure or certification may be available in this field of study, this program does not lead to such licensure or certification upon graduation. The professional preparation you receive in our program may still assist you in such pursuits; however, we are unable to confirm the specific licensure and certification requirements of each state, territory, or foreign entity in which professional credentialing may be possible. If you intend to pursue such credentialing in your state or elsewhere, we advise you to contact the applicable state credentialing authority to familiarize yourself with its specific requirements and determine if our program meets its academic criteria.

You are welcome to contact the College of Nursing's Assistant Dean of Students with questions in this regard, and we will do our best to assist you in your career planning.

Curriculum

The certificate program requires three courses, for a total of 9 credit hours.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Master's Degree

Optional courses cannot be substituted for the required courses and do not count toward the certificate.

Required Courses: 9 Credit Hours

- NGR 6718 - Evaluation in Nursing Education **3 Credit Hours**
- NGR 6791 - Teaching Strategies for Nurse Educators **3 Credit Hours**
- NGR 6713 - Curriculum Development in Nursing Education **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- MSN degree earned or in progress from an accredited institution.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
 - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
 - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
 - Identify one significant contemporary issue/ problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.

- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a graduate adviser to discuss your academic goals. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of \$100 per certificate program payable at <https://secure.projectconcert.com/ucf> and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Application Deadlines

Nursing Education Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Apr 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Susan Quelly PhD, RN, CNE

Associate Professor

susan.quelly@ucf.edu

Telephone: 407.823.0645

UTWR 428

Graduate Admission

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Optical Imaging Systems Graduate Certificate ► ◆

College: Optics and Photonics	Degree: CRT
Department: Optics and Photonics	
Program Websites: https://www.creol.ucf.edu/academics/graduate/	

Program Description

The Optical Imaging Systems Graduate Certificate is designed to provide working professionals with knowledge and training in optical imaging systems to enhance their career opportunities and meet their current responsibilities.

The certificate program compliments their technical backgrounds in science and engineering with the basic principles and applications of optical engineering in imaging, electro-optic systems, radiometry, and optical system design.

Please note: Optical Imaging Systems Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/licensure-programs/>.

Curriculum

For the Optical Imaging System certificate, students complete two required courses and two elective courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

- OSE 5115 - Interference and Diffraction **3 Credit Hours**
- OSE 6211 - Imaging and Optical Systems **3 Credit Hours**

Elective Courses: 6 Credit Hours

Choose two of the following four courses.

- OSE 5203 - Geometrical Optics **3 Credit Hours**
- OSE 5525 - Laser Engineering **3 Credit Hours**
- OSE 6242 - Infrared Systems **1 Credit Hours**
- OSE 6265 - Optical Systems Design **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in electrical engineering, physics, or a closely related discipline from an accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must **apply online**. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from **World Education Services (WES)** or **Josef Silny and Associates, Inc** only.

Applications are accepted for the fall and spring terms only.

Application Deadlines

Optical Imaging Systems Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

M. G, "Jim" Moharam, PhD
 Professor and Interim Associate Dean
 moharam@creol.ucf.edu
 CREOL 208

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address
 UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes
 GRE: 5233
 GMAT: RZT-HT-58

TOEFL: 5233
ETS PPI: 5233

Play Therapy Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Counselor Education and School Psychology	
Program Websites: https://ccie.ucf.edu/cesp/counselored/	

Program Description

The Graduate Certificate in Play Therapy is housed within the Counselor Education program in the College of Community Innovation and Education. The certificate program is designed to provide advanced training to students in the Counselor Education program and for practicing counselors and therapists working with children and adolescents.

The Play Therapy Graduate Certificate does not directly certify individuals in Play Therapy; however, it can be listed as a Graduate Certificate in Play Therapy as part of one's credentials. The educational courses are designed toward credentials to be registered as a play therapist. Applicants should also contact the Association for Play Therapy to verify the courses needed to be registered as a play therapist.

The Play Therapy Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Play-Therapy-GC.pdf>.

Curriculum

The Graduate Certificate in Play Therapy requires 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Master's Degree

Required Courses: 12 Credit Hours

- MHS 6421 - Foundations of Play Therapy and Expressive Arts **3 Credit Hours**
- MHS 6422 - Advanced Theories and Techniques of Play Therapy **3 Credit Hours**
- MHS 6403 - Group and Family Play Therapy **3 Credit Hours**

- MHS 6424 - Filial Therapy 3 Credit Hours

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF or those currently enrolled in or possessing a master's degree in counseling or a related field. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline. The Play Therapy Certificate program admits twice per year in the spring and summer terms only.

Individuals seeking national certification through the Association of Play Therapy Incorporated (APT) must obtain a master's degree in counseling or a related field and possess a state license in Mental Health Counseling, Marriage and Family Therapy, or Social Work. For additional play therapy certification requirements, please consult the APT website at www.a4pt.org.

Application Deadlines

Play Therapy Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Dalena Dillman Taylor PhD, LMHC, RPT-S

Associate Professor

dalena.taylor@ucf.edu

Telephone: 407-823-6106

ED 322-R

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Police Leadership Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: Criminal Justice	
Program Website: https://ccie.ucf.edu/criminaljustice/	

Program Description

The Graduate Certificate in Police Leadership provides a theoretical and practical knowledge base for law enforcement executives in criminal justice, public administration or social work.

The Graduate Certificate in Police Leadership is designed to provide a theoretical and practical knowledge base for the law enforcement executive in criminal justice, public administration or social work.

Municipalities, county governments, and state agencies have been working to develop new technologies, cooperative business and government relationships, and new ways of fighting and deterring criminal behavior. The police manager, who previously had been concerned only with issues involving statutes, policies, and local jurisdictional issues, must now be concerned with human resource and management issues, employee assistance programs, ethical issues, and local, state, federal, and international government relations.

Please note: Police Leadership Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students

choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

Students in the Police Leadership certificate must complete two required courses, one restricted elective and one course from the list of approved unrestricted electives, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

- CJE 5021 - Foundations of Law Enforcement **3 Credit Hours**
- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**

Elective Courses: 6 Credit Hours

Choose one of the following courses (3 credit hours):

- CCJ 6118 - Criminal Justice Organizations **3 Credit Hours**
- CJL 6568 - Law and Social Control **3 Credit Hours**
- PAD 5807 - Local Government Operations **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours** *This course is an advanced program evaluation course. Those without a background in Public Administration are discouraged from enrolling in this course.*

And, choose one of the following courses: 3 Credit Hours

- CCJ 5015 - The Nature of Crime **3 Credit Hours**
- CCJ 5456 - The Administration of Justice **3 Credit Hours**
- CCJ 6431 - Leadership and Ethics in Criminal Justice **3 Credit Hours**

- PAD 5041 - Ethics and Values in Public Administration **3 Credit Hours**
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**
This course has a prerequisite of PAD 6700. Contact the Public Administration department for an override.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Police Leadership Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Eugene Paoline, III PhD
 Professor
 Eugene.Paoline@ucf.edu
 Telephone: 407-823-4946
 HPA 1, RM 321

Elexis Ritz
 elaxis.ritz@ucf.edu
 Telephone: 407-823-6093
 HPA 311

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
 TOEFL: 5233
 ETS PPI: 5233

Prekindergarten Disabilities Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/teachered/exceptional-student-education/	

Program Description

The Graduate Certificate in Prekindergarten (Pre-K) Disabilities prepares graduate students to teach pre-kindergarten students with disabilities.

The Graduate Certificate in Prekindergarten (Pre-K) Disabilities is designed to provide additional knowledge and skills for professionals to meet the requirements for the Pre-K Disabilities ESE Endorsement. The four graduate courses focus on knowledge, skills, and competencies for working with children birth to age 5 with disabilities, developmental delays and/or at-risk conditions. They can be added to current teaching certification in any exceptional education field, primary education, elementary education (K-6), and/or early childhood education. Pending state approval, persons holding any of the Florida teaching certifications listed may apply the four certificate courses toward the State Prekindergarten (Pre-K) Endorsement (Administrative Rule 6A-4.01792). The Prekindergarten Disabilities Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that

regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Prekindergarten-Disabilities-GC.pdf>.

Tuition support for these courses is available for eligible candidates through the Pre-K Disabilities Endorsement Tuition Support Program from the Florida Department of Education, Bureau of Exceptional Education and Student Support Services. More information is available at <https://florida-ese.org/tuition-support>.

Please note: Prekindergarten Disabilities Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Prekindergarten Disabilities certificate, students complete four required courses (12 Credit Hours total).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- EEX 5702 - Planning Curriculum for Pre-Kindergarten Children with Disabilities **3 Credit Hours**
- EEX 5750 - Communication with Parents and Agencies **3 Credit Hours**
- EEX 6017 - Typical and Atypical Applied Child Development **3 Credit Hours**
- EEX 6222 - Observation and Assessment of Young Children **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in exceptional education or primary education from a regionally accredited institution, a master's degree in varying exceptionalities or primary education from a regionally accredited institution, or if an individual has shown evidence of graduate course work in one of these areas:

exceptional student education, preschool education (0-4), primary education (K-3), pre-kindergarten/primary education (PK-3), or early childhood education.

An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Prekindergarten Disabilities Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Mary Little PhD

Professor
 mary.little@ucf.edu
 Telephone: 407-823-3275
 ED 315J

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58
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Professional Writing Graduate Certificate ►

College: Arts and Humanities

Department: Writing and Rhetoric

Program Websites: <http://writingandrhetoric.cah.ucf.edu/prowriting.php>

Program Description

The Graduate Certificate in Professional Writing offers professionals opportunities to develop and improve communication skills vital to advancing in the workplace.

The certificate is designed for busy professionals, all courses are offered via the web, and the program can be completed in as few as three consecutive semesters.

Please Note: The Professional Writing Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. See <http://ucf.edu/online> for more information.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to **State Restrictions** for current information.

Curriculum

This flexible five-course sequence of graduate study includes two required core courses and allows students to choose three electives from the list below. Students will also complete an electronic writing portfolio before graduation.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—6 Credit Hours

- ENC 5337 - Rhetorical Theory **3 Credit Hours**
- ENC 6701 - Professional Writing Studies **3 Credit Hours**

Elective Courses—9 Credit Hours

Choose three courses from the following list.

- ENC 5237 - Writing for the Business Professional **3 Credit Hours**
- ENC 5276 - Theory and Practice of Tutoring Writing **3 Credit Hours**
- ENC 5705 - Approaches to Teaching College Composition **3 Credit Hours**
- ENC 5930 - Current Topics in Professional Writing **3 Credit Hours**
- ENC 6216 - Editing Professional Writing **3 Credit Hours** *
- ENC 6217 - Technical Editing **3 Credit Hours** *
- ENC 6247 - Proposal Writing **3 Credit Hours**
- ENC 6257 - Visual Technical Communication **3 Credit Hours**
- ENC 6261 - Technical Writing, Theory and Practice **3 Credit Hours**
- ENC 6292 - Project Management for Technical Writers. **3 Credit Hours**
- ENC 6296 - Interactive Design in Technical Communication **3 Credit Hours**
- ENC 6297 - Production and Publication Methods **3 Credit Hours**
- ENC 6306 - Persuasive Writing **3 Credit Hours**
- ENC 6332 - Gendered Rhetoric **3 Credit Hours**
- ENC 6333 - Contemporary Rhetoric and Composition Theory **3 Credit Hours**
- ENC 6335 - Rhetorical Traditions **3 Credit Hours**
- ENC 6338 - The Rhetorics of Public Debate **3 Credit Hours**
- ENC 6339 - Rhetorical Movements **3 Credit Hours**
- ENC 6421 - Digital Rhetorics **3 Credit Hours**
- ENC 6425 - Hypertext Theory and Design **3 Credit Hours**
- ENC 6428 - Digital Literacies **3 Credit Hours**
- ENC 6429 - Teaching Writing With Computers **3 Credit Hours**
- ENC 6945 - Community Literacy Practicum **3 Credit Hours**
- ENC 6712 - Studies in Literacy and Writing **3 Credit Hours**
- ENC 6245 - Teaching Professional Writing **3 Credit Hours**
- ENC 6740 - Topics in Rhetoric and Composition **3 Credit Hours**
- ENG 5009 - Methods of Bibliography and Research **3 Credit Hours**

- LIN 5137 - Linguistics 3 Credit Hours
- LIN 5675 - English Grammar and Usage 3 Credit Hours

Note:

Due to their similarity, students can apply either ENC 6216 or ENC 6217 to this program of study. Students cannot use both for elective credit for this program.

Electronic Writing Portfolio

Students will complete a web-based professional portfolio before filing for graduation. This portfolio must be approved by the program director and must include three exemplary projects, each from a different course. A page analyzing the rhetorical situation should accompany each project.

Exit Survey

Students should complete the Exit Survey at the end of their program if they would like to receive a certificate of program completion in addition to their grade audit.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Successful applicants will have received a grade of "A" or "B" in an upper-division writing intensive course. All applications require the following in order to be reviewed:

- An application to the graduate certificate program
- Official transcripts
- A statement of academic intent

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Application Deadlines

Professional Writing Graduate Certificate	*Fall Priority	Fall
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Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Sherry Rankins-Robertson, PhD

Sherry.Robertson@ucf.edu

Telephone: 407-823-2295

Trevor Colbourn Hall (TCH) 165H

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Project Engineering Graduate Certificate ►

College: Engineering and Computer Science	Degree: CRT
Department: Industrial Engineering and Management Systems	

Program Description

The Graduate Certificate in Project Engineering is designed to meet the needs of engineers moving into management and other leadership roles.

The certificate program compliments their technical backgrounds with the human aspects, organizational and financial issues, project considerations, and analytical tools for effective decision making.

Please note: Project Engineering Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Project Engineering certificate, students complete three required courses and one elective course, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- EIN 5108 - The Environment of Technical Organizations **3 Credit Hours**
- EIN 5117 - Management Information Systems I **3 Credit Hours**
- EIN 5140 - Project Engineering **3 Credit Hours**

Elective Courses: 3 Credit Hours

Choose one of the following two courses.

- EIN 6357 - Advanced Engineering Economic Analysis 3 **Credit Hours**
- ESI 6358 - Decision Analysis 3 **Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applications are accepted for the fall and spring terms only.

Application Deadlines

Project Engineering Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Mansoorh Mollaghasemi PhD

Associate Professor
 mollagha@ucf.edu
 Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Public Administration Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: School of Public Administration	
Program Websites: https://ccie.ucf.edu/public-administration/public-administration/graduate/public-administration/	

Program Description

The Graduate Certificate in Public Administration is designed to provide students with enhanced knowledge and skills in public service. This program is offered completely online.

The Graduate Certificate in Public Administration provides graduate-level continuing education for both in-service and pre-career students. The program emphasizes the managerial skills essential for local government programs in an evolving metropolitan environment. The knowledge gained can strengthen the student's professional standing and help open doors to managerial and support positions.

Credits earned in the certificate program may be applied toward the Master of Public Administration (MPA) degree. However, admission to the MPA degree program has separate requirements from those of the certificate program and students considering continuing into the master's degree should familiarize themselves with credit transfer policy and should consult with the academic advisor early in their certificate program. The Graduate Certificate in Public Administration requires that students complete 18 credit hours. Students must maintain at least a 3.0 grade point average in order to be awarded the Graduate Certificate. The certificate must be completed within seven years.

Please note: Public Administration Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students

choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Public Administration graduate certificate requires 18 credit hours of core courses.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 6700 - Research Methods in Public Administration **3 Credit Hours**
- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6037 - Public Organization Management **3 Credit Hours**
- PAD 6053 - Public Administrators in the Governance Process **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours** (Requires PAD 6700 as a prerequisite)
- PAD 6417 - Human Resource Management **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
 - Personal background and career aspirations in public service.
 - Reason for pursuing graduate study in public administration, including future career goals and plans.
 - Specific areas of public administration that interest you.
 - Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

Application Deadlines

Public Administration Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		July 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Abdul-Akeem Sadiq, PhD

Associate Professor
 Director, Public Administration Programs
 Abdul-akeem.sadiq@ucf.edu
 Telephone: 407-823-3925

Edlira Dursun, MPA,MNM

Graduate Adviser, MPA, MPP
 Edlira.dursun@ucf.edu

Telephone: 407-823-1139
DPAC 446B

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Public Budgeting and Finance Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Public Administration	
Program Website: https://ccie.ucf.edu/public-administration/	

Program Description

The Graduate Certificate in Public Budgeting and Finance is designed to meet the growing needs in our governments to understand and apply varied and complex budgeting and financial practices. The program is primarily aimed at students who wish to specialize in budgeting and finance careers in the public sector. The certificate curriculum prepares students to pursue the Certified Government Finance Officer designation from the Florida Government Finance Officers Association. This Certificate may be completed online.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how

this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Public-Budgeting-and-Finance-GC.pdf>.

Curriculum

The Graduate Certificate in Public Budgeting and Finance is comprised of 18 credit hours of graduate courses, including four required courses and two electives. This certificate prepares students for budgeting and financial careers in government.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 6207 - Public Financial Management **3 Credit Hours**
- PAD 6227 - Public Budgeting **3 Credit Hours**
- PAD 6238 - Revenue Policy and Administration **3 Credit Hours**
- PAD 6616 - Economic Principles for Public Policy and Management **3 Credit Hours**

Electives: 6 Credit Hours

Choose two courses from the following list.

- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 5855 - Introduction to Public Procurement **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- PAD 6234 - Public Capital and Debt **3 Credit Hours**
- PAD 6254 - Economics of Land Use Planning and Development **3 Credit Hours**
- PAD 6260 - Fundamentals of Public Sector Accounting **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be

submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- An official transcript from each college/university attended, showing a GPA of 2.5 or better on a 4.0 scale.
 - A current, professional resume.
 - Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - What is your reason for pursuing graduate study in Public Budgeting and Finance, including your future goals and plans?
 - What specific areas of Public Budgeting and Finance interest you?
 - Any previous work experience in the field.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

Application Deadlines

Public Budgeting and Finance Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Abdul-Akeem Sadiq, PhD

Associate Professor

Director, Public Administration and Public Policy Programs

Abdul-Akeem.Sadiq@ucf.edu

Telephone: 407-823-3925

Edlira Dursun, MPA, MNM
Graduate Adviser, MPA, MPP Programs
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Public Policy Analysis Graduate Certificate ►

College: Community Innovation and Education	De
Department: School of Public Administration	
Program Websites: https://ccie.ucf.edu/public-administration/	

Program Description

The Public Policy Analysis Graduate Certificate is primarily designed to complement the Master of Public Administration (MPA) program by providing a formalized path for students to specialize in public policy analysis. This certificate is designed for students interested in a range of policy domains such as urban, environmental, transportation, economic development, emergency management, disaster, homeland security, and health. The program will prepare graduate students for professional careers as policy analysts and leaders in public service at all levels of government and in the

private and nonprofit sectors, with a particular focus on public policy formulation, implementation, and evaluation. This Certificate may be completed entirely online.

Curriculum

The Graduate Certificate in Public Policy Analysis is comprised of 18 credit hours of graduate courses, including four required courses and two electives. This certificate prepares students for professional careers in Public Policy Analysis.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—12 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 6035 - Public Administration in the Policy Process **3 Credit Hours**
- PAD 6307 - Public Policy Analysis and Management **3 Credit Hours**
- PAD 6616 - Economic Principles for Public Policy and Management **3 Credit Hours**
- PAD 6327 - Public Program Evaluation Techniques **3 Credit Hours**

Electives—6 Credit Hours

Choose two courses from the following list.

- PAD 6238 - Revenue Policy and Administration **3 Credit Hours**
- PAD 6701 - Analytical Techniques for Public Administration **3 Credit Hours**
- PAD 6829 - Network Analysis in Public Policy and Management **3 Credit Hours**
- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 6387 - Transportation Policy **3 Credit Hours**
- PAD 6353 - Environmental Planning and Policy **3 Credit Hours**
- CCJ 6106 - Policy Analysis in Criminal Justice **3 Credit Hours**
- PHC 6146 - Health Planning and Policy **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5 on a 4.0 scale, in a sealed envelope, from each college/university attended.
 - A current, professional resume.
 - Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - What is your reason for pursuing graduate study in Public Policy Analysis, including your future goals and plans?
 - What specific areas of Public Policy Analysis interest you?
 - Any previous work experience in the field.
 - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

Application Deadlines

Public Policy Analysis Graduate Certificate	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1	Dec 1	
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Contact Info

Graduate Program

Abdul-Akeem Sadiq, PhD

Associate Professor
Abdul-Akeem.Sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun, MPA, MNM

Graduate Adviser, MPA, MPP Programs
Edlira.Dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Quality Assurance Graduate Certificate ►

College: Engineering and Computer Science	Degree: CRT
Department: Industrial Engineering and Management Systems	
Program Websites: http://www.iems.ucf.edu/	

Program Description

The Graduate Certificate in Quality Assurance is designed to provide students with the knowledge and tools they need to help them understand how to increase process and product performance and

to improve the quality and reliability of goods and services in any manufacturing, healthcare, and other service organizations.

Much of the resurgence of U.S. companies and service organizations in the global marketplace has been due to an increased emphasis on quality. Today's consumers are offered many alternatives to meet their needs, and they have consequently become very discriminating in their purchases. In addition, companies seek to be known as a quality organization, not merely the producer of quality products. The Graduate Certificate in Quality Assurance provides students with the knowledge they need to increase process and product performance, to improve the quality and reliability of goods and services and to institute steps to make their organizations more competitive through an overall commitment to quality.

Please note: Quality Assurance Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Quality Assurance certificate, students complete three required courses and one elective course, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- ESI 5219 - Engineering Statistics **3 Credit Hours**
- ESI 5236 - Reliability Engineering **3 Credit Hours**
- ESI 6225 - Quality Design and Control **3 Credit Hours**

Elective Courses: 3 Credit Hours

Choose one of the following two courses.

- ESI 5227 - Total Quality Improvement **3 Credit Hours**

- ESI 6224 - Quality Management 3 Credit Hours

Application Requirements

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applications are accepted for the fall and spring terms only.

Application Deadlines

Quality Assurance Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Mansoor Mollaghasemi PhD
 Associate Professor
 mollagha@ucf.edu
 Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230

PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Reading Education Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/teachered/k-12/reading-education/	

Program Description

The Graduate Certificate in Reading Education provides teachers with research-based strategies for teaching reading.

The Graduate Certificate in Reading Education meets the Florida Department of Education Reading Endorsement requirements and prepares classroom teachers with an emphasis on evidence-based strategies for assessment and instruction of K-12 reading. The Reading Education Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Reading-Education-GC.pdf>.

Curriculum

For the Reading Education certificate, students complete six required courses (18 credit hours total). Although there are no program course prerequisites, candidates who have had no previous children's or adolescent literature courses are strongly encouraged to take one course prior to enrolling in the certificate program or at least prior to enrolling in RED 6846 Reading Practicum.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Suggested courses for those candidates who have not had previous children's or adolescent literature courses include: LAE 5415 - Children's Literature in Elementary Education (3 Credit Hours) or LAE 5465 - Literature for Adolescents (3 Credit Hours).

Required Courses: 18 Credit Hours

*Online delivery course.

- RED 5147 - Developmental Reading **3 Credit Hours** *
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies **3 Credit Hours**
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours** *
- RED 6845 - Advanced Evaluation and Instruction in Reading **3 Credit Hours**
- RED 6846 - Reading Practicum **6 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must show proof of one of the following: Florida professional teaching certificate, Florida Department of Education Statement of Eligibility indicating that all requirements for professional (not temporary) certification have been met, completion of a state-approved initial teacher preparation program (undergraduate or graduate), or admission to a graduate-level state-approved preparation program.

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". The information provided in the link below is the best that is available to us. This information represents one year's data only, however, we hope that this information is helpful to current and prospective students, as you make your career and educational choices.

Application Deadlines

Reading Education Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Michelle Kelley EdD

Professor
michelle.kelley@ucf.edu
Education Complex 315N

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Research Administration Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: School of Public Administration	
Program Website: https://ccie.ucf.edu/public-administration/	

Program Description

The Graduate Certificate in Research Administration is an 18-credit online certificate that provides an overview of the core concepts in research administration for those interested in management within research organizations. The Certificate is intended to meet the needs

of individuals seeking a focused experience in order to prepare for or advance their careers in research management and leadership. It is appropriate for students who seek to expand their knowledge, but who do not wish to commit to a master's degree program.

Credit earned in the certificate program may be applied toward the Master of Research Administration (MRA) degree. However, admission to the MRA degree program has separate requirements from those of the certificate program. Students considering continuing into the master's degree should familiarize themselves with the credit transfer policy and consult with a faculty adviser early in their certificate program. The Graduate Certificate in Research Administration requires that students complete 18 credit hours of courses. Students must maintain at least a 3.0-grade point average in order to be awarded the Graduate Certificate. The certificate must be completed within three years.

Please note: Research Administration Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Graduate Certificate in Research Administration requires 18 credit hours of online courses that provide an overview of the core concepts in research administration. Students take 12 credit hours of required courses and choose 6 credit hours of elective courses.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 6742 - Introduction to Research Administration **3 Credit Hours**
- PAD 6743 - Leadership and Organization Models in Research Administration **3 Credit Hours**
- PAD 6747 - Audits in Research Administration **3 Credit Hours**
- PAD 6741 - Research Integrity for Research Administrators **3 Credit Hours**

Elective Courses: 6 Credit Hours

Select two courses from the following list:

- PAD 6748 - Governance and Regulatory Issues for Sponsored Programs **3 Credit Hours**
- PAD 6745 - Contracting for Sponsored Programs **3 Credit Hours**
- PAD 6744 - Financial Management in Research Administration **3 Credit Hours**
- PAD 6746 - Intellectual Property, Technology Transfer and Commercialization **3 Credit Hours**

Cost Per Credit Hour

For the Graduate Certificate in Research Administration, the cost per credit hour is \$655.62.*

*Fee is subject to change

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
 - What is your reason for pursuing graduate study in Research Administration, including your future goals and plans?
 - What specific areas of Research Administration interest you?
 - Working in Research Administration is preferred, not required.

- Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

Admission to this certificate program is limited. Please refer to the specific MRA program website for tuition rates. The University of Central Florida does not accept State Employee Waivers for this certificate program.

Application Deadlines

Research Administration Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Angela White-Jones PhD

Program Director
 Angela.White-Jones@ucf.edu
 Telephone: 407-823-2604

Nasrin Lakhani, MNM

Graduate Adviser
 Nasrin@ucf.edu
 Telephone: 407-823-0912

Graduate Admissions

TBA
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Research Smarts Graduate Certificate ► ◆

College: https://sciences.ucf.edu/	Degree: Certificate
Department: https://sciences.ucf.edu/sociology/	
Program Website: https://www.ucf.edu/degree/research-smarts-certificate https://sciences.ucf.edu/sociology/graduate	

Program Description

The Graduate Certificate in Research Smarts provides students with the essential skills and critical thinking needed by today's consumers of news and information.

Increasing one's Research Smarts will provide students with the practical skills and critical thinking necessary to produce and to consume findings, facts, and information with the assurance that it was arrived at systematically. These skills are not only useful in daily life, as we wade through the mass of news and information that comes our way, but also in private business, nonprofit organizations, government agencies, and other employment opportunities. Students seeking employment, those with jobs currently, or those working toward advancement can benefit from a critical examination of how knowledge is gained and which sources of information can be trusted. This is because nearly all employers value employees who are confident in their understanding and use of scientific research skills.

Students earning the Graduate Certificate in Research Smarts will acquire the following skills:

- Be able to define knowledge, social science research, and research methods.
- Summarize why understanding research methods is important.
- Evaluate and describe each of the major steps taken to conduct research as well as the importance of each step.
- Develop research questions and compare the different types of research questions.
- Understand why ethics are an important consideration during research.
- Understand a variety of ways to analyze data.
- Understand the relationship between research methods and data analysis.
- Be able to design a sound research project from developing the research question to collecting the data, to selecting the best analysis strategy to making strategic conclusions.
- Use the above skills to critically assess news and information as well as evaluate the claims and assertions of others.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 (if available) of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

The Research Smarts Graduate Certificate consists of three required courses.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

Students may select 9 hours (3 courses) from the following list:

- SYA 6305 - Social Research **3 Credit Hours**
- SYA 6315 - Qualitative Research Methods **3 Credit Hours**
- SYA 6356 - Geographic Information Systems in Society **3 Credit Hours**
- SYA 6425 - Design and Conduct of Social Surveys **3 Credit Hours**
- SYA 6452 - GIS Applications **3 Credit Hours**
- SYA 6455 - Research Analysis **3 Credit Hours**
- SYA 6458 - Advanced Topics in Geographic Information Systems in Society **3 Credit Hours**
- SYA 6657 - Program Design and Evaluation **3 Credit Hours**

- SYA 7309 - Advanced Sociological Research Methods **3 Credit Hours**
- SYA 7407 - Advanced Data Analysis **3 Credit Hours**
- SYA 7457 - Topics in Data Analysis **3 Credit Hours**
- SYA 7658 - Social Policy and Research Analysis **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution and at least one statistics course or math course. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Research Smarts Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Timothy L. Hawthorne, PhD

Associate Professor
 Department of Sociology
 Timothy.Hawthorne@ucf.edu
 Telephone: 407-823-3744
 HPH, RM 403

Bridgett Burk

Graduate Admissions Coordinator
 Department of Sociology
 HPH, RM 403
 407-823-3744

Graduate Admissions

Christina Dabrowski

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

SAS Data Mining Graduate Certificate

College: Sciences

Department: Statistics

Program Websites: <http://statistics.cos.ucf.edu/>

Program Description

The Graduate Certificate in SAS Data Mining is designed to provide students with the knowledge of using statistical, data presentation and data visualization tools needed for data mining with SAS/Enterprise Miner and SAS/Warehouse Administrator software.

The Graduate Certificate in SAS Data Mining provides students the knowledge to use statistical, data presentation, and data visualization tools needed for data mining with SAS/Enterprise Miner and SAS/Warehouse Administrator software. The program welcomes interested UCF students and those already employed full-time but wishing to advance their careers. Basic familiarity with the web and computer programming is required.

Curriculum

The program requires five courses and is set up so that students begin the program in the fall semester. Applicants contemplating applying

for spring and summer terms should first contact the program coordinator for advisement.

All courses that are offered as part of a certificate program must be graduate-level courses. Students must earn course grades of "B" or better to get credit toward the certificate. Courses may be retaken to achieve a better grade. However, the certificate will only be awarded if the graduate status GPA in the certificate program of study is 3.0 or higher and each course used towards the certificate have a grade of at least a "B".

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Two courses can be taken during the initial fall semester. The remaining courses will be taken once per semester during the spring (year 1), fall (year 2) and spring (year 2) semesters. All courses are scheduled in the late afternoon or evening hours.

Required Courses: 15 Credit Hours

Students who have a sufficient background in statistics, subject to the approval of the graduate program director, can take a higher-level course such as STA 6236 - Regression Analysis instead of STA 5206 - Statistical Analysis.

- STA 5104 - Advanced Computer Processing of Statistical Data **3 Credit Hours**
- STA 5206 - Statistical Analysis **3 Credit Hours**
- STA 6714 - Data Preparation **3 Credit Hours**
- STA 5703 - Data Mining Methodology I **3 Credit Hours**
- STA 6704 - Data Mining Methodology II **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

SAS Data Mining Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1

Applicants contemplating applying for spring and summer terms should first contact the program for advisement.

International Applicants		
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*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Edgard Maboudou, PhD

Professor

Edgard.Maboudou@ucf.edu

Telephone: 407-823-2695

TC2 201

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

Social Justice in Public Service Graduate Certificate ♦

College: <https://ccie.ucf.edu/>

Degree: CRT

Department: <https://ccie.ucf.edu/public-administration/>

Program Websites: <https://ccie.ucf.edu/public-administration/socialjustice>

Program Description

The Social Justice in Public Service graduate certificate seeks to develop leaders who can influence policy to create social justice. Students will obtain a background in social justice, exploring topics such as human rights, income distribution and the role of markets. Students will understand factors that contribute to inequity among various groups, with a focus on providing theories and methods to analyze social justice issues in public service. They will understand principles of social justice as they apply to government and nonprofit sector in various policy domains.

Curriculum

Graduate Certificate in Social Justice in Public Administration consists of 15 credit hours. Each student will complete 6 credit hours of core courses and 9 credit hours of restricted electives.

This certificate is primarily a face-to-face program but students will be able to select electives from the list of restricted electives that may be offered on-line. Classes are offered at UCF Downtown campus in the evenings.

Courses from an undergraduate degree may not be applied to this Certificate.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 15 Credit Hours Total

Core: 6 Credit Hours

- PAD 5185 - Foundations of Social Justice for Public Service **3 Credit Hours**
- PAD 5186 - Policy Advocacy for Social Justice **3 Credit Hours**

Restricted Electives: 9 Credit Hours

Select three elective courses from the list below (9 Credit Hours):

- EDF 6886 - Multicultural Education **3 Credit Hours**
- EDF 6855 - Equitable Educational Opportunity and Life Chances: A Cross-National Analysis **3 Credit Hours**
- INR 6067 - Human Rights and Security **3 Credit Hours**
- INR 6062 - Peace Studies **3 Credit Hours**
- INR 6356 - Environmental Security **3 Credit Hours**
- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 5930 - Global Cities **3 Credit Hours**
- PAD 6357 - Urban Resilience **3 Credit Hours**
- PAD 6825 - Cross-Sectoral Governance **3 Credit Hours**
- PUP 6324 - Women and Public Policy **3 Credit Hours**
- SYO 6409 - Social Inequalities in Health **3 Credit Hours**
- SYO 6404 - Food Insecurity and Health **3 Credit Hours**
- PAD 6938 - Special Topics **Credit Hours**

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements.

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

The School of Public Administration incorporates service learning into some courses. Service learning is a teaching method that provides a means for every student to enhance his or her academic program with experiential learning opportunities. Service learning provides an opportunity for students to work with community partners by collecting and compiling data and producing quality products that will be beneficial to both students and organizations.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers and internships also contribute to the self-development of students.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 2.5 in a sealed envelope, from each college/university, attended.
- Current professional résumé including experience in the field (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the reason for pursuing graduate study in Social Justice related to Public Administration.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines

Social Justice in Public Service Graduate Certificate	*Fall Priority	Fall	Spring
Domestic Applicants		Jun 1	Dec 1
International Applicants			
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.			

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Contact Info

Graduate Program

Staci Zavattaro PhD
Professor
Staci.Zavattaro@ucf.edu

Nasrin Lakhani
Director, Student Support Services
nasrin.lakhani@ucf.edu

Graduate Admissions

TBD
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Social Science Education Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Websites: https://ccie.ucf.edu/teachered/secondaryed/	

Program Description

The Social Science Education Graduate Certificate is for teachers who instruct students in social science content in grade levels K-12.

The program is designed to improve the quality of teaching and learning in social science classrooms. Graduates of the K-12 Social Science program form a strong infrastructure of teachers focusing on long-term impact in schools while helping students succeed in learning social science content. The focus of the K-12 Social Science Education Graduate Certificate is to provide all graduates with exceptional pedagogical and subject matter knowledge and skills by focusing on research-based, state-of-the-art best practices in social science education.

Other K-12 Social Science Education Programs

A Master of Education in K-12 Social Science Education is available. Students who successfully complete the graduate certificate may transfer credits from the Social Science Education Graduate Certificate into the MEd program, if they meet the acceptance criteria and are admitted into the MEd in Social Science Education program. In addition, the K-12 Social Science Education master's program is closely allied with the Education PhD, Social Science Education Track. Graduates of the Social Science Education master's program have been very successful in completing advanced graduate degrees.

Curriculum

The graduate certificate in Social Science Education includes four required courses chosen from the list of approved courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators **3 Credit Hours**
- SSE 5391 - Global Education: Theory and Practice **3 Credit Hours**
- SSE 5776 - Democracy and Education **3 Credit Hours**
- SSE 5790 - Inquiry and Instructional Analysis in Social Science Education **3 Credit Hours**
- SSE 6115 - Methods in Elementary School Social Science **3 Credit Hours**
- SSE 6348 - Foundations and Fundamentals of Teaching History in the K-12 Classroom **3 Credit Hours**
- SSE 6387 - Teaching with Film **3 Credit Hours**
- SSE 6388 - Digital History in the K-12 Classroom **3 Credit Hours**
- SSE 6396 - Teaching with Primary Sources in the History Classroom **3 Credit Hours**
- SSE 6636 - Contemporary Social Science Education **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Social Science Education Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Scott Waring PhD

Associate Professor
socscied@ucf.edu
Telephone: 407-823-1766
ED 206J

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Social Work Administration Graduate Certificate

College: Health Professions and Sciences	Degree: CRT
Department: School of Social Work	
Program Websites: https://healthprofessions.ucf.edu/socialwork/	

Program Description

This program has been temporarily suspended effective Summer 2014.

The Graduate Certificate in Social Work Administration is designed to prepare students for management positions in the public sector and private nonprofit agencies.

Each student will select courses that are suited to their career objective. The courses offered in this program include strategies for organizational management, strategic planning, employment law, leadership skills development, selection of performance measurements, quality assurance, needs assessments, program monitoring and evaluation, budgeting, grant writing and human resource management.

Curriculum

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

- SOW 6383 - Social Work Administration **3 Credit Hours**

Elective Courses: 6 Credit Hours

Select two courses from the following list.

- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- PAD 6417 - Human Resource Management **3 Credit Hours**

Application Requirements

Admission is only open to those who are currently enrolled in the Master of Social Work program. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. Please submit all requested material by the established deadline(s).

Contact Info

Graduate Program

Shawn Lawrence PhD, LCSW

Associate Professor

shawn.lawrence@ucf.edu

Telephone: 407-823-3112

HPA 1 Suite 204

Graduate Admissions

TBA

gradadmissions@ucf.edu

Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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ETS PPI: 5233

Special Education Graduate Certificate ►

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Websites: https://ccie.ucf.edu/exceptional-student-education/	

Program Description

The Graduate Certificate in Special Education provides out-of-field teachers and students with some of the coursework needed to meet state certification requirements in special education.

The Special Education certificate will help out-of-field teachers become more effective in their classrooms and will enhance the delivery of education to children and youth with disabilities.

Please note: Special Education Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

The Special Education Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit <https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Special-Education-GC.pdf>.

Curriculum

The Special Education certificate requires six courses (18 credit hours total).

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 18 Credit Hours

- EEX 5051 - Exceptional Children in the Schools **3 Credit Hours**
- EEX 6061 - Instructional Strategies Pre-K-6 **3 Credit Hours**
- EEX 6065 - Programming for Students with Disabilities at the Secondary Level **3 Credit Hours**
- EEX 6107 - Teaching Spoken and Written Language **3 Credit Hours**
- EEX 6295 - Assessment and Curriculum Prescriptions for the Exceptional Population **3 Credit Hours**
- EEX 6612 - Methods of Behavioral Management **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". The information provided in the link below is the best that is available to us. This information represents one year's data only, however, we hope that this information is helpful to current and prospective students, as you make your career and educational choices.

Application Deadlines

Special Education Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Mary Little PhD
Professor
mary.little@ucf.edu
Telephone: 407-823-3275
ED 315J

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Structural Engineering Graduate Certificate

College: Engineering and Computer Science

Degree: CRT

Department: Civil, Environmental, and Construction Engineering

Program Websites: <http://www.cece.ucf.edu/graduate/>

Program Description

The Graduate Certificate in Structural Engineering provides qualified engineers and students with the knowledge to analyze and design structures that will perform safely.

Structural engineering plays a significant role in the ongoing infrastructure developments in the central Florida area. Engineers continually need to update their knowledge of the state-of-the-art in research and practice in order to ensure the safety of constructed facilities. The Graduate Certificate in Structural Engineering is designed to advance the knowledge of civil and structural engineers. The Graduate Certificate is a good way for qualified students to sample the graduate programs in this area. However, because these are graduate level classes, students must have an undergraduate degree in Civil Engineering or closely related discipline in order to be admitted.

Curriculum

For the Structural Engineering certificate, students have the flexibility to choose four courses from a list of approved engineering courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Choose four of the following courses.

- CEG 6115 - Foundation Engineering **3 Credit Hours**
- CES 5144 - Matrix Methods for Structural Analysis **3 Credit Hours**
- CES 5325 - Bridge Engineering **3 Credit Hours**
- CES 5606 - Advanced Steel Structures **3 Credit Hours**
- CES 5706 - Advanced Reinforced Concrete **3 Credit Hours**
- CES 6010 - Structural Reliability **3 Credit Hours**
- CES 6116 - Finite Element Structural Analysis **3 Credit Hours**
- CES 6209 - Dynamics of Structures **3 Credit Hours**
- CES 6220 - Wind and Earthquake Engineering **3 Credit Hours**

- CES 6230 - Advanced Structural Mechanics **3 Credit Hours**
- CES 6527 - Nonlinear Structural Analysis **3 Credit Hours**
- CES 6715 - Prestressed Concrete Structures **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in Civil or Mechanical Engineering from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Structural Engineering Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Andrew Randall PhD PE

Professor
 andrew.randall@ucf.edu
 Telephone: 407-823-6429
 Engineering II, 211-L

Ana Lucia Salas

Graduate Student Services Coordinator
 AnaLucia.Salas@ucf.edu
 Telephone: 407-823-1299
 Engineering II, 211-K

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Student Athlete Support Services Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Educational Leadership and Higher Education	
Program Website: https://ccie.ucf.edu/elhe/	

Program Description

This certificate is designed to assist entry level and current professionals to better perform associated duties in the various athletic academic content areas. Emphasis is on the development and expansion of student-athlete services to enhance academic success, leadership skills, administration of athletics in universities, and student development as an integral part of the student-athlete experience. Additionally, it is designed to expand their knowledge of topics relevant to student athletics including student development theory, organization and administration, athletics in American universities, and academic success in the student athlete. Those enrolled in the program must complete a practical internship. The program also provides a benefit to practicing athletic advisors and administrators and faculty interested in becoming more knowledgeable in these areas.

Curriculum

The Graduate Certificate in Student Athletic Support Services requires 16 credit hours.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—15 Credit Hours

Students will complete five (5) required courses:

- EDH 6047 - Theories of College Student Development **3 Credit Hours**
- EDH 6407 - Ethical and Legal Issues in Student Personnel **3 Credit Hours**
- EDH 6635 - Organization and Administration of Higher Education **3 Credit Hours**
- EDH 6655 - Athletics in the American University **3 Credit Hours**
- EDH 6656 - Academic Success and the Student Athlete **3 Credit Hours**

Internship

Students will complete a 1 credit hour internship (15-20 hours) in an athlete services office or position approved by the faculty advisor.

- **EDH 6946 - Internship**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Student Athletic Support Services Graduate Certificate	*Fall Priority	Fall	
Domestic Applicants		Jul 1	
International Applicants			

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Thomas Cox EdD
thomas.cox@ucf.edu
ED 315Q

Graduate Admissions

TBA
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
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ETS PPI: 5233

Supporting High Needs Populations Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: Learning Sciences and Educational Research	
Program Website: https://ccie.ucf.edu/lser/	

Program Description

The Graduate Certificate in Supporting High Needs Populations offers additional education and training to the educational professional who works in urban settings.

The program is comprised of two graduate courses that address critical issues associated with life in urban schools and two graduate-level specialization electives tailored to personal areas of concentration.

Curriculum

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 6 Credit Hours

- EDF 6725 - Critical Issues in the Study of High Needs Populations **3 Credit Hours**
- EDG 6636 - Impact of Social Contexts on Teaching and Learning **3 Credit Hours**

Elective Courses: 6 Credit Hours

Select two courses from the following electives.

- EDF 6155 - Lifespan Human Development and Learning **3 Credit Hours**
- EDF 6886 - Multicultural Education **3 Credit Hours**
- EEX 5051 - Exceptional Children in the Schools **3 Credit Hours**
- EEX 6065 - Programming for Students with Disabilities at the Secondary Level **3 Credit Hours**
- EEX 6342 - Seminar-Critical Issues in Special Education **3 Credit Hours**
- EGI 6246 - Education of Special Populations of Gifted Students **3 Credit Hours**
- RED 5147 - Developmental Reading **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

Supporting High Needs Populations Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Martha Lue-Stewart PhD

Professor
martha.stewart@ucf.edu
Telephone: 407-823-2036
ED 315S

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Survey Research Graduate Certificate

College: Sciences
n/a

Program Description

The Survey Research Certificate will prepare students for work as a professional or academic survey researcher. Course requirements ensure that students are well-trained as designers and analysts for surveys, and that they have an understanding of the use and application of survey methods.

Curriculum

In order to complete the certificate, students must complete one course in survey research methodology (Group 1), one course in research design (Group 2), an eligible advanced research methods course (Group 3), and an eligible course in which survey research is the principal mode of empirical inquiry (Group 4).

Because survey research training is available in different departments, students may choose to fulfill these requirements using courses offered by a single department or by using courses offered by multiple departments (subject to availability). Certificate-only students will consult with the certificate program advisor in selecting their courses.

Students must earn course grades of "B-" or better to get credit toward the certificate. For further Graduate Certificate Policies visit <https://graduate.ucf.edu/graduate-certificate-policy/>.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Group 1: Survey Research Methods Course

Students must take one Survey Research Methods course from the list below.

- INP 6072 - Survey Research Methods and Program Evaluation in Indust. and Org. Psychology **3 Credit Hours**
- POS 6757 - Survey Design for Political Science Research **3 Credit Hours**
- STA 6223 - Conventional Survey Methods **3 Credit Hours**
- SYA 6425 - Design and Conduct of Social Surveys **3 Credit Hours**

Group 2: Quantitative Research Course

Students must take one quantitative research methods course from the list below.

- CCJ 6706 - Data Analysis in Criminal Justice I **3 Credit Hours**
- COM 6304 - Quantitative Research Methods in Communication **3 Credit Hours**
- POS 6746 - Quantitative Methods in Political Research **3 Credit Hours**
- POS 7745 - Advanced Quantitative Methods in Political Research **3 Credit Hours**
- PSY 6216C - Research Methodology **4 Credit Hours**
- STA 5206 - Statistical Analysis **3 Credit Hours**

- SYA 6305 - Social Research **3 Credit Hours**

Group 3: Advanced Methodological Course

Students must take an advanced quantitative methods course from the list below.

- POS 6729 - Political Network Analysis **3 Credit Hours**
- POS 6743 - Geographic Tools for Political Science Research **3 Credit Hours**
- POS 6747 - Advanced Topics in Quantitative Political Analysis **3 Credit Hours**
- STA 6224 - Bayesian Survey Methods **3 Credit Hours**
- STA 6226 - Sampling Theory and Applications **3 Credit Hours**
- SYA 6452 - GIS Applications **3 Credit Hours**
- SYA 7309 - Advanced Sociological Research Methods **3 Credit Hours**
- SYA 7407 - Advanced Data Analysis **3 Credit Hours**

Survey Research in Context

Students must take one of the following courses. These courses use surveys extensively in their investigations of the topics that they focus on.

- MMC 6567 - New Media **3 Credit Hours**
- MMC 6600 - Media Effects and Audience Analysis **3 Credit Hours**
- MMC 6735 - Social Media as Mass Communication **3 Credit Hours**
- POS 6045 - Seminar in American National Politics **3 Credit Hours**
- POS 6079 - The Politics of Race, Ethnicity, Gender, and Class in the United States **3 Credit Hours**
- POS 6207 - Political Behavior **3 Credit Hours**
- SYD 6705 - Seminar in Race and Ethnicity **3 Credit Hours**
- SYD 6809 - Seminar in Gender Issues **3 Credit Hours**
- SYP 5566 - Seminar on Domestic Violence: Theory, Research and Social Policy **3 Credit Hours**

Application Requirements

Admission is available to applicants with a bachelor's degree from an accredited institution recognized by UCF. Applicants must **apply online**. All requested materials must be submitted by established deadlines.

Applicants to this program must provide:

- Official Transcripts

- Statement of Purpose of 500 words or fewer
- Current CV or Resume

Admission to this certificate program is competitive; applicants are not guaranteed admission. While the program does not have specific pre-requisite courses that need to be completed prior to enrollment in the program, applicants should demonstrate their preparedness to succeed in quantitative methods courses in their application materials.

Application Deadlines

Survey Research	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Admissions

Anthony Tufano

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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 PO Box 160112
 Orlando, FL 32816-0112

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Systems Engineering Graduate Certificate ►

College: Engineering and Computer Science	Degree: CRT
Department: Industrial Engineering and Management Systems	
Program Websites: http://www.iems.ucf.edu/	

Program Description

The Graduate Certificate in Systems Engineering focuses on introducing students to the fundamentals of systems requirements, architecture, and integration and testing. Systems Engineering is an interdisciplinary approach and means to enable the realization of successful systems. Systems Engineering integrates all the disciplines and specialty groups into a team effort forming a structured development process that proceeds from concept to production to operation. Systems Engineering considers both the business and the technical needs of all customers with the goal of providing a quality product that meets the user needs.

Please note: Systems Engineering Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit <http://global.ucf.edu/>. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Curriculum

For the Systems Engineering certificate, students complete four required courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses—12 Credit Hours

- EIN 5140 - Project Engineering **3 Credit Hours**
- ESI 6511 - Systems Integration and Testing **3 Credit Hours**
- ESI 6551 - Systems Engineering **3 Credit Hours**
- ESI 6552 - Systems Architecture **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in engineering or a closely related discipline from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only. Applications are accepted for the fall and spring terms only.

Application Deadlines

Systems Engineering Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Mansoor Mollaghasemi PhD
 Associate Professor
 mollagha@ucf.edu
 Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Institution Codes

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Teaching English as a Foreign Language Graduate Certificate

College: Arts and Humanities	Degree: CRT
Department: Modern Languages and Literatures	
Program Websites: https://mll.cah.ucf.edu/programs/	

Program Description

The Graduate Certificate in Teaching English as a Foreign Language prepares students with specialized knowledge and skills to teach English as a Foreign Language in overseas settings.

The program focuses on the fundamentals of EFL teaching principles and methodology, linguistics, materials/curriculum development, and assessment.

English has become the gateway to many international and technical jobs, as well as the key to entrance into institutions of higher education. The number of people interested in learning English as a second or third language is increasing steadily. With the rising demand for English instructors comes an increasing need for individuals qualified to teach English as a Foreign Language. The majority of overseas English language schools require their teachers to be certified in Teaching English as a Foreign Language. Our flexible, four-course program is taught by qualified instructors with experience in language pedagogy and overseas teaching. (Note: The TEFL Certificate Program is not designed for teachers seeking K-12 ESOL endorsement in Florida.)

If you are looking to teach English overseas, the TEFL Certificate at UCF is your gateway to a new career. Your courses will not only prepare you for teaching in another country, they are accredited courses that will count toward your graduate degree.

Curriculum

The TEFL Graduate Certificate can be completed in one or more semesters, depending on the semester of entrance. Students must consult with their adviser or the program director prior to selecting the four courses for their program. No course substitutions are allowed.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Select any four from the following basket of courses. Please consult with your adviser to help you choose the courses that best fit the needs for your future career.

- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**
- TSL 6940 - ESOL Practicum **3 Credit Hours**
- TSL 5940 - Issues in TEFL **3 Credit Hours**
- TSL 6142 - Critical Approaches to ESOL **3 Credit Hours**
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 6350 - Grammar for ESOL Teachers **3 Credit Hours**
- TSL 6440 - Assessment Issues in TESOL **3 Credit Hours**
- TSL 6640 - Research in Second Language **3 Credit Hours**
- TSL 6252 - Sociolinguistics for ESOL **3 Credit Hours**
- TSL 5380 - Computers and Technology for ESOL **3 Credit Hours**
- TSL 5601 - Second Language Vocabulary Learning **3 Credit Hours**
- TSL 6642 - Issues in Second Language Acquisition **3 Credit Hours**
- TSL 6374 - TESOL Listening, Speaking and Pronunciation **3 Credit Hours**
- TSL 6442 - Fundamentals of Standardized Assessment in TESOL **3 Credit Hours**
- TSL 5376 - Reading and Writing in a Second Language **3 Credit Hours**

Note:

Though the courses may be taken in any order, it is recommended that TSL 6940 - ESOL Practicum be taken near the end of a program of study (if that course is included).

Independent Learning

Many of the courses have service-learning or practical experience components. This is to ensure that at the end of your TEFL Graduate

Certificate you have the education, experience, and expertise to teach EFL in any setting.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Application Deadlines

Teaching English as a Foreign Language Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Kerry Purmensky
 Kerry.Purmensky@ucf.edu
 Telephone: 407-823-0110
 Trevor Colbourn Hall (TCH) 358A

Graduate Admissions

Mike Burke
 gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

Technology Ventures Graduate Certificate

College: Business Administration	Degree: CRT
Department: Management	
Program Websites: business.ucf.edu/graduate-programs/	

Program Description

This program has been temporarily suspended and is no longer accepting applications effective Summer 2017.

The Graduate Certificate in Technology Ventures is designed for those interested in creating and growing technology-based business ventures, including startups, corporate ventures and spin outs.

The associated courses offer insight into opportunity assessment, innovation diffusion, intellectual property issues, university-industry collaboration, technology business strategies, and business plan formulation.

Curriculum

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- GEB 6518 - Strategic Innovation **3 Credit Hours**
- GEB 5516 - Technological Entrepreneurship **3 Credit Hours**
- GEB 6116 - Business Plan Formation **3 Credit Hours**

Application Requirements

Admission is open to those with documentation of a bachelors degree from a regionally accredited institution or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

Contact Info

Graduate Program

Cameron Ford PhD

Associate Professor
cbagrad@bus.ucf.edu
Telephone: 407-823-3700
Business Administration 345

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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Training Simulation Graduate Certificate

College: Engineering and Computer Science	Degree: CRT
Department: Industrial Engineering and Management Systems	
Program Websites: http://www.iems.ucf.edu/	

Program Description

This program has suspended admissions effective Fall 2020

The Graduate Certificate in Training Simulation provides a fundamental understanding of the significant topics regarding systems, requirements, design, development and use of training simulations.

Due to the tremendous growth in military and commercial training simulation, many people in this industry are facing the need for additional education.

Curriculum

For the Training Simulation certificate, students complete three required courses, for a total of 9 credit hours.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 9 Credit Hours

- EIN 5255C - Interactive Simulation **3 Credit Hours**
- EME 6613 - Instructional System Design **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only. Applications are accepted for the fall and spring terms only.

Application Deadlines

Training Simulation Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Mansoorah Mollaghasemi PhD

Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Graduate Admissions

Ashley Rivera Mercado

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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TOEFL: 5233
ETS PPI: 5233

Transportation Engineering Graduate Certificate

College: Engineering and Computer Science	Degree: CRT
Department: Civil, Environmental, and Construction Engineering	
Program Websites: http://www.cece.ucf.edu/graduate/	

Program Description

The Graduate Certificate in Transportation Engineering is designed for professionals who are faced with solving transportation needs. Transportation engineering is crucial for the Orlando area.

As gridlock becomes more evident, more skilled professionals will be needed.

Curriculum

For the Transportation Engineering certificate, students have the flexibility to choose four courses from a list of approved engineering courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Choose four courses from the following list.

- CGN 6655 - Regional Planning, Design, and Development **3 Credit Hours**
- TTE 5204 - Traffic Engineering **3 Credit Hours**
- TTE 6256 - Traffic Operations **3 Credit Hours**
- TTE 5805 - Geometric Design of Transportation Systems **3 Credit Hours**
- TTE 6205 - Highway Capacity **3 Credit Hours**
- TTE 6270 - Intelligent Transportation Systems **3 Credit Hours**
- TTE 6315 - Traffic Safety Analysis **3 Credit Hours**
- TTE 6526 - Planning and Design of Airports **3 Credit Hours**
- TTE 6625 - Mass Transportation Systems **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students must have completed an undergraduate Transportation course (such as TTE 4004) or an equivalent.

Application Deadlines

Transportation Engineering Graduate Certificate	*Fall Priority	Fall
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Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Andrew Randall PhD PE

Professor
 andrew.randall@ucf.edu
 Telephone: 407-823-6429
 Engineering II, 211-L

Ana Lucia Salas

Graduate Student Services Coordinator
 AnaLucia.Salas@ucf.edu
 Telephone: 407-823-1299
 Engineering II, 211-K

Graduate Admissions

Ashey Rivera Mercado

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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Urban and Regional Planning Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Public Administration	
Program Website: https://ccie.ucf.edu/public-administration/	

Program Description

The Graduate Certificate in Urban and Regional Planning is designed to enhance knowledge, skills, and career development in the field of community, urban and regional planning.

Planning has been identified as one of the key policy issues in central Florida, which is a major growth area in the state.

Curriculum

The Urban and Regional Planning graduate certificate requires 18 credit hours of courses, including 12 credit hours of required courses and 6 credit hours of elective courses.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 5336 - Introduction to Urban Planning **3 Credit Hours**
- PAD 5337 - Urban Design **3 Credit Hours**
- PAD 5338 - Land Use and Planning Law **3 Credit Hours**
- PAD 6716 - Information Systems for Public Managers and Planners **3 Credit Hours**

Restricted Electives: 6 Credit Hours

Choose two courses from the following list.

- PAD 5356 - Managing Community and Economic Development **3 Credit Hours**
- PAD 6316 - Planning Methods **3 Credit Hours**
- PAD 6387 - Transportation Policy **3 Credit Hours**
- PAD 6397 - Managing Emergencies and Crises **3 Credit Hours**

- PAD 6353 - Environmental Planning and Policy **3 Credit Hours**
- PAD 6825 - Cross-Sectoral Governance **3 Credit Hours**
- PAD 6847 - Planning Healthy Communities **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended. Current professional résumé including experience in the field (paid or voluntary).
 - Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
 - Personal background and career aspirations in urban and regional planning.
 - Reason for pursuing graduate study in urban and regional planning, including your future career goals and plans.
 - Specific areas of urban and regional planning that interests you.
- These documents must be attached to the application. Applications must be submitted by the established deadline date. Applications received after the established deadline may not be considered. Students are expected to be computer literate and have computer internet access upon entry to the program. Admission to this program is competitive; applicants meeting the minimum admission requirements are not guaranteed admission to this program.

Application Deadlines

Urban and Regional Planning Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Chia-Yuan Yu, PhD

Assistant Professor
Chia-Yuan.Yu@ucf.edu
407-823-2604

Jesica Lovelace, MPA

Graduate Advisor
Jesica.Lovelace@ucf.edu
407-823-0170

Graduate Admissions

TBA

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

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World Languages Education - English for Speakers of Other Languages (ESOL) Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/teachered/k-12/world-languages-education/	

Program Description

The World Languages Education - English for Speakers of Other Languages (ESOL) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching English learners in PreK-12 schools.

The graduate certificate is designed for College of Community Innovation and Education students pursuing graduate initial certification degrees in secondary content areas, school leadership, or student support fields. Students who successfully complete this graduate certificate can expect to increase their marketability in educational professions that serve English learners in PreK-12 settings. This graduate certificate is designed to promote student success in PreK-12 schools but does not directly qualify students for teacher certification. Courses used to earn this certificate may not also be used to earn the World Languages Education - Languages Other Than English (LOTE) graduate certificate.

Curriculum

The World Languages Education, English for Speakers of Other Languages (ESOL) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching English learners in PreK-12 schools. The graduate certificate is designed for College of Community Innovation and Education students pursuing graduate initial certification degrees in secondary content areas, school leadership, or student support fields. To earn the certificate, students complete four required courses (12 credit hours total).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
- TSL 6379 - Second Language Literacy **3 Credit Hours** or
- TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**
- TSL 5525 - ESOL Cultural Diversity **3 Credit Hours**

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

World Languages Education - English for Speakers of Other Languages (ESOL) Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Michele Regalla PhD

Assistant Professor

Michele.Regalla@ucf.edu

Telephone: 4074823-0074

ED 122A

Graduate Admissions

Christina Dabrowski

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

Mailing Address

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

Institution Codes

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233

World Languages Education - Languages Other Than English (LOTE) Graduate Certificate

College: Community Innovation and Education	Degree: CRT
Department: School of Teacher Education	
Program Website: https://ccie.ucf.edu/teachered/k-12/world-languages-education/	

Program Description

The World Languages Education - Languages Other Than English (LOTE) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching languages other than English. The graduate certificate is well suited for students pursuing a graduate degree in a language other than English or for students with graduate standing who are proficient in a LOTE that they would like to teach.

Students who successfully complete this graduate certificate can expect to increase their marketability in careers that include educational components such as instructing, training and lecturing. This graduate certificate is designed to promote student success in instructional settings, particularly in the PreK-12 school setting, but does not directly qualify students for teacher certification. Courses used to earn this certificate may not also be used to earn the World Languages Education - English for Speakers of Other Languages (ESOL) graduate certificate.

Curriculum

The World Languages Education, Languages Other Than English (LOTE) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching languages other than English. The graduate certificate is well suited for students pursuing a graduate degree in a language other than English or for students with graduate standing who are proficient in a LOTE that they would like to teach. To earn the certificate, students complete four required courses (12 credit hours total).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Required Courses: 12 Credit Hours

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms **3 Credit Hours**
 - TSL 6250 - Applied Linguistics in ESOL **3 Credit Hours**
Choose two from the list:
 - TSL 6379 - Second Language Literacy **3 Credit Hours**
 - FLE 6695 - Professional Development in Foreign Language Education **3 Credit Hours**
 - FLE 5345 - Teaching World Languages in K-12 Schools **3 Credit Hours**
- OR
- TSL 5345 - Methods of ESOL Teaching **3 Credit Hours**
Note: Students can take either FLE 5345 or TSL 5345 but not both.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines

World Languages Education - Languages Other Than English (LOTE) Graduate Certificate	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

Michele Regalla PhD
Assistant Professor
Michele.Regalla@ucf.edu
Telephone: 4074823-0074
ED 122A

Graduate Admissions

Christina Dabrowski

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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Nondegree**Education Undecided or
Certification**

College: Community Innovation and Education

Program Description

The Education Undecided/Certification program is for students who have completed at least a baccalaureate degree from a regionally accredited university in the United States and are not seeking a graduate degree. Students in this status may be interested in taking graduate courses for personal or professional enhancement or to prepare for possible admission to a graduate degree-seeking or certificate program in the College of Community Innovation and Education at UCF.

Not all graduate degree programs in the UCF College of Community Innovation and Education allow students in this status to enroll in their courses. It is best to contact the program director for the graduate program that offers the course prior to applying. If eligible, students in this status may take only 5000- or 6000-level courses (unless seeking certification).

Admission into Education Undecided/Certification status does not guarantee admission to a graduate degree-seeking or certificate program at UCF. International students are not eligible for this status unless they hold an eligible visa. International students taking online courses from their home country are eligible to be nondegree seeking since they do not require a visa.

Please Note: In general, Education Undecided/Certification students are not eligible for financial aid, assistantships, or fellowships, although it is best to check with the Office of Student Financial Assistance for specific details. Nondegree-seeking students must be enrolled in 12 credit hours or more to be considered in full-time status.

Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to completing the online application, Education Undecided/Certification applicants will need to submit official, final transcripts from a regionally accredited institution showing a conferred bachelor's degree.

Education Undecided/Certification students will also be required to submit an Immunization Form prior to enrollment. Although this form is not used in the admission process, students will not be allowed to enroll at UCF without submitting the required Immunization Form.

Application Deadlines

Education Undecided or Certification	*Fall Priority	Fall
Domestic Applicants		Jul 1
International Applicants		

*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.

Contact Info

Graduate Program

Graduate Affairs Office
 cciegrad@ucf.edu
 Telephone: 407-823-5369
 ED 115

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Nondegree or Transient

College: Nondegree

Program Websites : http://www.graduate.ucf.edu/
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Program Description

The Nondegree program is for students who have completed at least a baccalaureate degree from an accredited institution recognized by UCF in the United States and are not seeking a graduate degree. Students in this status may be interested in taking graduate courses at UCF for personal or professional enhancement, to prepare for possible admission to a graduate degree-seeking or certificate program, or to complete enrollment requirements at another university. Students who are enrolled in a graduate program at another university and want to take courses at UCF and transfer it to their home institution are considered transient students and nondegree-seeking at UCF.

Not all graduate degree programs at UCF allow students in Nondegree status to enroll in their courses. It is best to contact the program director for the graduate program that offers the course prior to applying.

Admission into Nondegree status does not guarantee admission to a graduate degree-seeking or certificate program at UCF. International students are not eligible for Nondegree status unless they hold an

eligible visa. International students taking online courses from their home country are eligible to be nondegree seeking since they do not require a visa.

Please Note: In general, nondegree-seeking students are not eligible for financial aid, assistantships, or fellowships, although it is best to check with the Office of Student Financial Assistance for specific details. Nondegree-seeking students must be enrolled in 12 credit hours or more to be considered in full-time status.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to completing the online application, Nondegree applicants will need to submit an official, final transcripts from an accredited institution recognized by UCF showing a conferred bachelor's degree.

Nondegree-seeking students will also be required to submit an Immunization Form prior to enrollment. Although this form is not used in the admission process, students will not be allowed to enroll at UCF without submitting the required Immunization Form.

Application Deadlines

Nondegree or Transient	*Fall Priority	Fall	Spring	Summer
Domestic Applicants		Jul 1	Dec 1	Apr 1
International Applicants				
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.				

Contact Info

Graduate Admissions

Mike Burke

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Nursing Nondegree

College: Nursing

Department: Nursing

Program Websites: <http://www.nursing.ucf.edu/>

Program Description

Nursing Nondegree students may take nursing graduate courses as a nondegree-seeking post-baccalaureate student on a space-available basis. See the Policies section of this Catalog for details on the possible use of these courses toward a degree. Completion of post-baccalaureate courses does not guarantee admission to the graduate program or their use in a degree program.

Students should choose the Nursing Nondegree option on the application to facilitate processing of files. Students may take nursing graduate classes as a nondegree-seeking post-baccalaureate student on a space-available basis. It is possible that no courses will have space available in a given semester as students in the graduate nursing programs receive priority for enrollment. Please contact the College of Nursing Graduate Office for registration assistance at gradnurseadvisor@ucf.edu.

International students are not eligible for this status unless they hold an eligible visa. International students taking online courses from their home country are eligible to be nondegree seeking since they do not require a visa.

Please Note: In general, Nursing Nondegree students are not eligible for financial aid, assistantships, or fellowships, although it is best to check with the Office of Student Financial Assistance for specific details. Nondegree-seeking students must be enrolled in 9 credit hours or more to be considered in full-time status.

Curriculum

Students with a BSN can enroll in graduate nursing courses as nondegree on a space-available basis. Students will be required to complete and submit a Non-degree Student Registration Request Form to be registered. Students can only transfer courses taken in nondegree status with a "B" grade or better into a graduate nursing program. Transfer credit limitations apply to nondegree students and will vary depending on the program. Please refer to the Graduate Catalog for Policies related to nondegree-seeking students and transfer of credit.

Nursing nondegree enrollment will be limited to the following courses:

- NGR 5800 - Theory for Advanced Practice Nursing **3 Credit Hours**
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice **3 Credit Hours**
- NGR 5638 - Health Promotion **3 Credit Hours**
- NGR 5720 - Organizational Dynamics **3 Credit Hours**
- NGR 5871 - Health Care Informatics **3 Credit Hours**
- NGR 6899 - The Practice of Global Health Care **3 Credit Hours**

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to completing the online application, Nursing Nondegree applicants will need to submit official, final transcripts from a regionally accredited institution showing a conferred bachelor's degree and evidence of completion of a professional nurse education program (RN).

Nursing Nondegree students will also be required to submit an Immunization Form prior to enrollment. Although this form is not used in the admission process, students will not be allowed to enroll at UCF without submitting the required Immunization Form.

Application Deadlines

Nursing Nondegree	*Fall Priority	Fall
Domestic Applicants		Jul 1
Students interested in Nursing Nondegree should contact the College of Nursing (gradnurse@2744) regarding class availability and scheduling prior to applying.		
International Applicants		
*Applicants who plan to enroll full time in a degree program and who wish to be considered for fellowships or assistantships should apply by the Fall Priority date.		

Contact Info

Graduate Program

gradnurseadvisor@ucf.edu
 Telephone: 407-823-2744
 UTWR 326

Graduate Admissions

TBA

gradadmissions@ucf.edu
 Telephone: 407-823-2766
 Millican Hall 230
 Online Application
 Graduate Admissions

Mailing Address

UCF College of Graduate Studies
 Millican Hall 230
 PO Box 160112
 Orlando, FL 32816-0112

Institution Codes

GRE: 5233
 GMAT: RZT-HT-58
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 ETS PPI: 5233

Understanding Course Info

Classification of Courses

- **3000-4999. Junior- and senior-level courses (Upper-division).** These courses contain advanced undergraduate level material and are designed primarily for undergraduate juniors and senior. When approved for inclusion in an individual program of graduate study by a supervisory committee approved by UCF College of Graduate Studies, selected 4000-4999 courses may serve the needs of individual graduate students.
- **5000-5999. Courses designed for graduate students.** Courses at the 5000 level are taken to satisfy graduate degree requirements. However, nondegree-seeking students and seniors may enroll in 5000-level courses with permission from the program.
- **6000-6999. Advanced graduate level courses.** These courses are designed to build upon the beginning graduate level courses and to deliver more advanced content and experiences. They are open only to graduate students. (Seniors, within nine hours of graduation that have a minimum 3.0 GPA and do not register for more than twelve hours may request college permission to take a 6000-level class.) Students in 3+2 programs (combined bachelor's and master's programs) should check with their adviser before registering for 6000-level courses.
- **7000-7999. Doctoral-level courses.** These courses provide material at the most advanced graduate level. They are restricted to admitted doctoral students only.
- **8000-8999. Medical School courses.** These courses provide material for the Medical School curriculum. They are restricted to students in the Medical School.

Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 25 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. The information is at the SCNS website at <http://scns.fldoe.org>.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

Example of Course Identifier

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
ENC	1	1	0	1	

English Composition	Lower (Freshman) level at this institution	Freshman Composition	Freshman Composition Skills	Freshman Composition Skills I	No laboratory component in this course
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General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with few exceptions. (Exceptions are listed below.)

For example, a freshman composition skills course is offered by 84 different public and non-public postsecondary institutions. Each institution uses "ENC 101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take this course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshmen Composition," the decade digit "0" represents "Freshman composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine the satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent. Note: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term systems. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

"Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses

offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possesses credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students."

Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been accepted from the guarantee of transfer for equivalent courses. These include varying topics courses that must be evaluated individually or applied courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

- A. Courses not offered by receiving institution
- B. For courses completed at non-accredited institutions or at accredited institutions not recognized by UCF, or courses offered prior to the established transfer date of the course in question.
- C. Courses in the 900-999 series are not automatically transferable and must be evaluated individually. These include such courses as Special Topics, Internships, Practica, Study Abroad, Thesis, and Dissertations.
- D. Applied academics for adult education courses
- E. Graduate courses
- F. Internships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
- G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theater) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

Courses Earned at Accredited Institutions Not Recognized by UCF

The Statewide Course Numbering System makes available on its home page (<http://scns.fldoe.org>) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Associate Dean, in Undergraduate Studies, Millican Hall 210, University of Central Florida, 4000 Central Florida Parkway, Orlando, FL 32816, Phone (407) 823-2691, or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the internet at <http://scns.fldoe.org>.

Special Courses

In addition to the regular courses listed in this catalog, special courses may be available. Consult an academic adviser for details. Only admitted graduate students may take special courses except for the Special Topics/Seminars (5937 and 6938), which are open to eligible students with instructor permission.

In order to register for any of the special numbers below, a student must present a signed Registration Agreement form obtained from the Department or College.

	Special Grad	Grad and Prof
Directed Independent Studies	5907	6908
Directed Research	5917	6918
Special Topics/Seminars	5937	6939
Internships, Practica, Clinical Practice	5944	6946
Cooperative Education	5949	
Study Abroad	5957	6958
Research Report		6909
Thesis—Master's		6971
Thesis—Specialist		6973
Doctoral Research		7919
Doctoral Special Topics/Seminars		7939
Doctoral Dissertation		7980

These courses may be assigned variable credit. Some may be repeated upon approval.

Abbreviations in Course Descriptions

- **PR** - Prerequisite, a course that must be taken and passed prior to enrollment in the listed course.
- **CR** - Corequisite, a course that must be taken concurrently with or prior to the listed course.
- **C.I.** - Registration is contingent upon the Consent of the Instructor.

Hours Code

Each course listed is followed by a code that shows hours of credit and contact hours.

Example

ECI 5215C ECS-CEE 3(2,3)

ECI 5215C is offered by the College of Engineering and Computer Science (ECS) in the Civil and Environmental Engineering (CEE) Department, carries 3 hours of credit but requires 5 contact hours, which consist of 2 hours in class and 3 hours laboratory or fieldwork.

Course Prefixes

Course Prefixes

Prefix	Description
AAE	Applied Academics for Adult Education
ABE	Agricultural and Biological Engineering
ACG	Accounting: General
ADE	Adult Education
ADV	Advertising
AEB	Agriculture Economics
AEC	Agriculture Economics and Communication
AFA	Afro-American Studies
AFH	African History
AMH	American History
AML	American Literature
ANT	Anthropology
ANG	Anthropology: Graduate
APK	Applied Kinesiology
ARA	Arabic Language
ARE	Art Education
ARH	Art History
ART	Art
ASH	Asian History
AST	Astronomy
ATR	Athletic Training
AVM	Aviation Mgmt
BCC	Basic Clinical Clerkships (Required)
BCH	Biochemistry (Biophysics)
BME	Biomedical Engineering

BMS	Basic Medical Sciences
BOT	Botany
BSC	Biological Sciences
BTE	Business Teacher Education
BUL	Business Law
CAP	Computer Applications for Computer Scientists
CBH	Comparative Psychology and Animal Behavior
CCE	Civil Construction Engineering
CCJ	Criminology and Criminal Justice
CDA	Computer Design/Architecture
CEG	Civil Geotechnical Engineering
CEN	Computer Engineering
CES	Civil Engineering Structures
CET	Computer Engineering Technology
CGN	Civil Engineering
CGS	Computer General Studies
CHI	Chinese
CHM	Chemistry
CHS	Chemistry: Specialized
CIS	Computer Science and Information Systems
CJC	Corrections
CJE	Law Enforcement
CJJ	Juvenile Justice
CJL	Law and Process
CLA	Classical and Ancient Studies
CLP	Clinical Psychology
CNT	Computer Networks
COM	Communication
COP	Computer Programming

COT	Computing Theory
CPO	Comparative Politics
CRW	Creative Writing
CWR	Civil Water Resources
CYP	Community Psychology
DEP	Developmental Psychology
DIG	Digital Media
EAB	Experimental Analysis of Behavior
EAS	Aerospace Engineering
EBD	Education: Emotional/Behavior Disorders
ECM	Engineering: Computer Math
ECO	Economics
ECP	Economic Problems and Policy
ECS	Economic Systems and Development
ECT	Education: Career/Technical
ECW	Education: Career/Workforce
EDA	Educational Administration
EDE	Education: Elementary
EDF	Education: Foundations and Policy Studies
EDG	Education: General
EDH	Education: Higher
EDM	Education: Middle School
EDP	Educational Psychology
EDS	Education Supervision
EEC	Education: Early Childhood
EEE	Engineering: Electrical and Electronic
EEL	Engineering: Electrical
EES	Environmental Engineering Science
EEX	Education: Exceptional Child: Core Compet.

EGC	Counselor Education
EGI	Education: Gifted
EGM	Engineering Science
EGN	Engineering: General
EIN	Industrial Engineering
ELD	Education: Specific Learning Disabilities
EMA	Materials Engineering
EME	Education: Technology and Media
EML	Engineering: Mechanical
EMR	Education: Mental Retardation
ENC	English Composition
ENG	English: General
ENL	English Literature
ENT	Entrepreneurship
ENV	Engineering: Environmental
ENY	Entomology
EPD	Education: Physical and Multiple Disabilities
EPH	Education: Physical and Multiple Handicapped
ESE	Education: Secondary
ESI	Industrial/Systems Engineering
ETE	Education: Technology Education
ETG	Engineering Technology: General
ETI	Engineering Technology: Industrial
ETP	Engineering Technology: Power
EUH	European History
EVR	Environmental Studies
EVT	Education: Vocational/Technical
EXP	Experimental Psychology
FIL	Film

FIN	Finance
FLE	Foreign Language Education
FSS	Food Service Systems
GEB	General Business
GEO	Geography: Systematic
GEY	Gerontology
HFT	Hospitality Management
HIM	Health Information Management
HIS	General History and Historiography
HMG	Hospitality Management Graduate
HSA	Health Services Administration
HSC	Health Sciences
HUM	Humanities
HUN	Human Nutrition
IDS	Interdisciplinary Studies
IFS	Interdisciplinary Florida State University Courses
INP	Industrial and Applied Psychology
INR	International Relations
ISC	Interdisciplinary Sciences
ISM	Information Systems Management
JOU	Journalism
LAE	Language Arts and English Education
LAH	Latin American History
LEI	Leisure
LIN	Linguistics
LIT	Literature
MAA	Mathematics: Analysis
MAD	Mathematics: Discrete
MAE	Mathematics Education

MAN	Management
MAP	Mathematics Applied
MAR	Marketing
MAS	Mathematics: Algebraic Structures
MAT	Mathematics
MCB	Microbiology
MDC	Medicine Clinical Clerkships
MDE	Medical Electives
MDI	Medical Internships
MDR	Medical Research
MDS	Medical Selectives
MDX	Medical Externships
MEL	Medical Science Electives
MHS	Mental Health Services
MLS	Medical Laboratory Science
MMC	Mass Media Communication
MTG	Mathematics: Topology and Geometry
MUC	Music: Composition
MUE	Music Education
MUG	Music: Conducting
MUH	Music: History/Musicology
MUL	Music Literature
MUM	Music: Commercial/Management/Administration
MUN	Music Ensembles
MUO	Music: Opera/Musical Theatre
MUS	Music
MUT	Music: Theory
MVB	Applied Music: Brasses
MVJ	Applied Music: Jazz

MVK	Applied Music: Keyboard
MVO	Applied Music: Other
MVP	Applied Music: Percussion
MVS	Applied Music: Strings
MVV	Applied Music: Voice
MVW	Applied Music: Woodwinds
NGR	Nursing: Graduate
NSP	Nursing: Special
OSE	Optical Science and Engineering
PAD	Public Administration
PAF	Public Affairs
PAZ	Parks and Zoos
PCB	Process Biology (Cell/Molecular/etc.)
PEM	Phys. Edu. Acts. (Gen): Perform. Centered, Land
PEO	Phys. Edu. Acts. (Prof.): Object Centered, Land
PET	Physical Education Theory
PGY	Photography
PHC	Public Health Concentration
PHI	Philosophy
PHM	Philosophy of Man and Society
PHT	Physical Therapy
PHY	Physics
PHZ	Physics (Continued)
PLA	Paralegal/Legal Assistant/Legal Administration
POS	Political Science
POT	Political Theory
PPE	Personality
PSB	Psychobiology
PSY	Psychology

PUP	Public Policy
PUR	Public Relations
QMB	Quantitative Methods in Business
RED	Reading Education
REE	Real Estate
RET	Respiratory Care
RLG	Religion - Graduate
SCE	Science Education
SDS	Student Development Services
SOP	Social Psychology
SOW	Social Work
SPA	Speech Pathology and Audiology
SPB	Sport Business
SPC	Speech Communication
SPM	Sports Management
SPN	Spanish Language
SPS	School Psychology
SPW	Spanish Literature (Writings)
SSE	Social Studies Education
STA	Statistics
SYA	Sociological Analysis
SYD	Sociology: Demography/Area Studies/Minorities
SYG	Sociology, General
SYO	Social Organization
SYP	Social Processes
TAX	Taxation
THE	Theatre Studies and General Resources
TPA	Theatre Production and Administration
TPP	Theatre Performance and Performance Training

TSL	Teaching English as a Second Language
TTE	Transportation Engineering
URP	Urban and Regional Planning
URS	Urban and Regional Studies
WST	Women's Studies
ZOO	Zoology

College/Department Indicator

Following the course number for each course is an indicator denoting the college and department responsible for the course. The college designators are BA = Business Administration, CAH = Arts and Humanities, COM = College of Medicine, CON = College of Nursing, COS = Sciences, CREOL = Optics and Photonics, ED = Education, ECS = Engineering and Computer Science, and HPA = Health and Public Affairs.

College	Abbreviation	Department
BA	ACCT	Accounting
CAH	AAS	African American Studies
COS	ANTHRO	Anthropology
COS	BIOL	Biology
COS	CHEM	Chemistry
ED	CFCS	Child, Family & Comm Sci
ECS	CECE	Civil, Envir & Const Eng
BA	BUS	College-BA
CAH	CAH	College-CAH
ECS	ECS	College-ECS
ED	EDU	College-ED
HPA	HPA	College-HPA
HPA	COM SC&DIS	Commun Sci & Disorders
COS	COMM	Communication
ECS	CS	Computer Science

HPA	CJ	Criminal Justice
BA	ECON	Economics
ED	E&HS	Educational & Human Sci
ECS	ECE	Electrical & Computer Eng
CAH	ENG	English
CAH	FILM	Film Program
BA	FIN	Finance
RCHM	FOOD&LODG	Foodservice & Lodging Mgm
HPA	HMI	Health Mangt & Informati
HPA	HP	Health Professions
CAH	HIST	History
RCHM	HSP SERV	Hospitality Services
ECS	IEMS	Industrial & Management
GRDST	INTERDIS	Interdisciplinary Grad
HPA	LS	Legal Studies
BA	MAN	Management
BA	MIS	Management Inform. System
BA	MAR	Marketing
ECS	MSE	Materials Sci & Engineer
COS	MATH	Mathematics
ECS	MECH/AERO	Mechanical & Aerospace
COM	MED	Medicine
CAH	LANG	Modern Languages
COM	M&M	Molecular and Microbiology
CAH	MUSIC	Music
CON	NURS	Nursing

OPT	OPT	Optics
CAH	PHIL	Philosophy
COS	PHYS	Physics
COS	POLS	Political Science
COS	PSYCH	Psychology
HPA	PUB	Public Administration
HPA	PUB AFF	Public Affairs
CAH	SVAD	Schl Visual Arts & Design
HPA	SOWK	Social Work
COS	SOC	Sociology
COS	STAT	Statistics
ED	TL&L	Teach, Learn & Leadership
CAH	THEA	Theatre
RCHM	TEA	Tourism, Events & Attract
CAH	WOM	Women's Studies
CAH	WRITE	Writing and Rhetoric

Courses

Courses listed here include all approved UCF graduate courses as of the date this Graduate Catalog was published (May 2019).

Availability of Courses. The university does not offer all of the courses listed in this Graduate Catalog each academic year, academic semester, or term. Consult the "Course Catalog Search" or "Class Schedule Search" at myUCF (<https://my.ucf.edu>) for those courses offered each term.

Understanding Course Info

Accounting: General

ACG 5917 - Directed Research

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 5937 - Special Topics

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6185 - Financial Statement Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. Analysis of business and financial information to develop financial analysis abilities and enhance understanding of the relationships between business strategies, processes, and financial information.

Fall, Spring

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6255 - International and Multinational Accounting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and completion of all business and accounting foundation core courses or equivalent. An examination of the environmental factors affecting international accounting concepts and standards. Cross-country differences in accounting treatments are compared

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6305 - Advanced Managerial Accounting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. Advanced and current techniques for generation and use of accounting information in managerial decision-making.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6415 - Advanced Accounting Information Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. Evaluation of the overall risk to critical accounting and business processes posed by information technology.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6425 - Managerial Accounting Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA Master's Program of Study Foundation Core (not open to Accounting majors).
Accounting as an information measurement system for internal planning and control.

Fall, Spring

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6519 - Governmental and Nonprofit Accounting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. Examination of current issues and advanced topics in governmental and nonprofit accounting with emphasis on public policy issues and governmental budgeting.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6636 - Advanced Auditing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. Advanced topics on independent, external auditing including internal control, evidence, reporting, and operational auditing.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6675 - Operational Auditing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. In depth study of the

standards, principles, practices, and procedures followed in the internal audit function.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6685 - Fraud Auditing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. Theory and techniques relating to fraud auditing and fraud examination.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6805 - Accounting Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. An examination of the evolution of contemporary accounting theory with emphasis on current and future developments.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6835 - Ethics and Professionalism in Accounting and Auditing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and completion of all business and accounting foundation core courses. This course focuses on why and how theories of the professions and theories of individual ethical decision-making are applicable to the practice of accounting.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6841 - Analytics in Managerial Accounting

ACG 6909 - Research Report

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6918 - Directed Research

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 6938 - Special Topics

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7157 - Seminar in Archival Research in Accounting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Approval of instructor and PhD program coordinator.

Extensive coverage of archival literature dealing with auditing, financial accounting, accounting regulation, and related accounting research.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7390 - Seminar in Managerial Accounting Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Instructor and PhD program coordinator consent.

This course provides an in-depth understanding of the management accounting literature and the knowledge and skills needed to undertake scholarly research in this area.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7399 - Seminar in Behavioral Accounting Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to doctoral program, ACG 7157, and C.I.

Extensive study of the theoretical aspects and empirical literature related to accounting-based judgement/decision processes and the behavioral implications of accounting.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7826 - Seminar in the Social and Organizational Context of Accounting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Instructor and PhD program coordinator consent.

This course provides the student with an appreciation for the body of accounting knowledge that investigates accounting as a practice carried out within social and organizational contexts.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7837 - Foundations in Behavioral Accounting Research**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I. and PhD Program Coordinator Consent.

Foundation in behavioral theory development and research design applicable to studying the individual and organizational aspects of accounting.

Odd Fall

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7885 - Research Foundations in Accounting**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Instructor and PhD program coordinator consent.

This course provides doctoral students with an intellectual foundation in research and research methods that are applicable in the study of accounting.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7887 - Accounting Research Forum**1 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to doctoral program.

Research and pedagogical issues in accounting, including research presentations by faculty, doctoral students, and invited scholars. May be taken for 4 hours credit.

Fall, Spring

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7888 - Seminar in Critical Accounting and AIS

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Instructor and PhD program coordinator consent.

This course provides an in-depth understanding of the critical accounting and AIS literature and the knowledge and skills necessary to undertake scholarly research in the area.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7915 - Directed Research in Accounting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): GEB 7910 and C.I.

Advanced study in specialized areas of accounting research. Study designed to lead toward publishable research or student's dissertation. By definition, topical areas will vary.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7917 - Advanced Research Methods in Accounting and Accounting Information Systems Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Approval of instructor and PhD program coordinator.

Advanced study in specialized areas of accounting and AIS research. By definition, topical areas will vary.

Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7919 - Research

College of Business Administration - Kenneth G. Dixon School of Accounting

ACG 7939 - Special Topics

Advertising

ADV 5917 - Directed Research

Nicholson School of Communication

ADV 5937 - Special Topics

Nicholson School of Communication

ADV 6209 - Advertising and Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of the social and ethical impact of advertising focusing on the development and presentation of advertising messages.

Occasional

Nicholson School of Communication and Media - Department of Communication

ADV 6918 - Directed Individual Research in Advertising

Nicholson School of Communication

Aerospace Engineering

EAS 5123 - Intermediate Aerodynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EAS 4134 Corequisite(s): EML 5060.

Aerodynamic characteristics of airfoils, finite wings, waves, wing-body combinations, viscous flow and flow instabilities. Airfoil design.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 5157 - V/Stol Aerodynamics and Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EAS 4105 Corequisite(s): EML 5060.

Momentum theory, blade element theory, hover and forward flight, stability, aeroelasticity.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 5211 - Aeroelasticity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EAS 3101 or EML 3701 and EML 4225.

Concerned with consequences and trade-offs created by interactions between aerodynamic forces and structural deformation. Static aeroelastic problems; control effectiveness; lift effectiveness; divergence. Dynamic aeroelasticity; flutter and vibration.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 5302 - Direct Energy Conversion

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3101 and EML 4142.

Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 5315 - Rocket Propulsion

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EAS 4134 or EML 4703.

Analysis and performance of rocket motors; selection and thermochemistry of chemical propellants: liquid and solid propellant rockets.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 5407C - Mechatronic Systems

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): EML 3034C.

Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 5535 - Engineering Design for Aerospace Vehicles

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EAS 4700C, EAS 4710C, EML 4501C, EML 4502C, or equivalent.

Applications of the design process to aerospace vehicles. A system approach will be emphasized. Techniques for optimizing interface requirements will be covered.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 5917 - Directed Research

College of Engineering and Computer Science

EAS 5937 - Special Topics

College of Engineering and Computer Science

EAS 6138 - Advanced Gas Dynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5713. Corequisite(s): EML 5060.

Analysis of steady and unsteady transonic, supersonic and hypersonic flows. Shock waves, nozzles, diffusers, and high speed wind tunnels.

Odd Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6185 - Turbulent Flow

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060 and EML 5713.

Phenomena and methods of characterizing turbulence; spatial and temporal velocity correlation; energy spectra; transition prediction; turbulent boundary layer equations; hot wire and LDV measurement techniques.

Even Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6222 - Non-Destructive Evaluation of Aero-Structures**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EAS 4200 or EML 5237.

Overview of methods employed for non-destructive evaluation of structures in the context of damage tolerant analysis.

Odd Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6250 - Structural and Dynamic Stability**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5237, EML 5271.

Concepts of and analysis methods for elastic and dynamic stability and associated bifurcations, including for high strain rates and structures with multiple stable equilibria.

Even Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6403C - Attitude Determination and Control**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

EAS 6507, EML 5060. Spacecraft attitude dynamics and control. Pointing and stabilization methods. Optimal and learning algorithms applied to perturbation analysis.

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6405 - Advanced Flight Dynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EAS 4105 or equivalent. Aerodynamic principles as applied to stability and control of aerospace vehicles. Generalized vehicle performance. Small disturbance dynamic stability and control response.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6414 - Estimation of Dynamical Systems in Aerospace Engineering**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5271, EML 5060 or C.I.

Concepts of parameter estimation, probability concepts in estimation and estimation of dynamical systems relevant to aerospace systems applications.

Odd Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6415 - Guidance, Navigation and Control**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060, EAS 6507.

Inertial and GPS navigation techniques. Explicit and implicit guidance formulations. Robust control applications to aircraft, missile and space vehicles.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6507 - Topics of Astrodynamics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5271 or C.I.

Spacecraft attitude dynamics and control. Orbital mechanics. Optimal control of aerospace vehicles. Emphasis is on recent developments and applications.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6722 - Multidisciplinary Optimization Under Uncertainty

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060 or C.I.

Formulation of design objectives as optimization problems. Application of optimization techniques to design. Surrogate techniques for analytical and experimental optimum engineering design. Applications to project.

Even Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6807C - Aerospace Measurements Instrumentation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): EAS 4134, EAS 3800C, EAS 6507, EML 5060, or C.I.; not open to students who have credit for EML 6308C.

Inertial instruments (i.e.; gyros, accelerometers), thermal, fluid, optical sensors and actuators, for space and aerodynamic applications.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6808 - Space Environment and Payload Instrumentation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EAS 4504, EML 5060 or C.I. Space environment and payload instrumentation. Characterization of space environment and payload instrumentation methods.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EAS 6909 - Research Report

College of Engineering and Computer Science

EAS 6918 - Directed Research

College of Engineering and Computer Science

EAS 6938 - Special Topics

College of Engineering and Computer Science

EAS 7980 - Dissertation

Prerequisite(s): Candidacy status.

Dissertation

Every Semester

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

African History

AFH 5259 - Colloquium in African History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Readings on selected topics in African History. May be used in the degree program a maximum of 3 times.

Odd Fall

College of Arts and Humanities - Department of History

AFH 5806 - The Historiography of Slavery in Africa

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Course covers the central issues and controversies in the historiography of slavery in Africa.

Occasional

College of Arts and Humanities - Department of History

AFH 5917 - Directed Research

College of Arts and Humanities

AFH 5937 - Special Topics

College of Arts and Humanities

AFH 6918 - Directed Research

College of Arts and Humanities

Afro-American Studies

AFA 5917 - Directed Research

College of Arts and Humanities

AFA 5937 - Special Topics

College of Arts and Humanities

American History

AMH 5077 - Colloquium in Twentieth Century Tourism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Examines the historiography and major themes in the history of tourism scholarship.

Occasional

College of Arts and Humanities - Department of History

AMH 5116 - Colloquium in Early American History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Reading and discussion of the literature on selected topics in Early American history. May be used in the degree program a maximum of 3 times.

Occasional

College of Arts and Humanities - Department of History

AMH 5169 - Colloquium in the American Early Republic

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Intensive reading and class discussion on selected topics of the Early American Republic.

Occasional

College of Arts and Humanities - Department of History

AMH 5176 - Colloquium in Civil War and Reconstruction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era.

Occasional

College of Arts and Humanities - Department of History

AMH 5296 - Colloquium in 20th Century U.S.

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Reading and class discussion on selected topics in 20th-century U.S. May be used in the degree program a maximum of 4 times.

Occasional

College of Arts and Humanities - Department of History

AMH 5378 - History of Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Introduces the historiography of technology's role in historical events, and society's role in shaping technology.

Even Summer

College of Arts and Humanities - Department of History

AMH 5391 - Colloquium in U.S. Cultural History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Students will read and discuss a common or diverse body of the significant literature in the field.

Occasional

College of Arts and Humanities - Department of History

AMH 5406 - Colloquium in American South

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present.

Occasional

College of Arts and Humanities - Department of History

AMH 5636 - Colloquium in US Environmental History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Evolution of historical texts and methodologies for understanding nature-human interaction and how access to resources shaped human opportunity, from colonization to the present.

Occasional

College of Arts and Humanities - Department of History

AMH 5917 - Directed Research

College of Arts and Humanities

AMH 5925 - Colloquium in US Military History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Readings in selected topics in United States military history. May be used in the degree program a maximum of 3 times only when course content is different.

Occasional

College of Arts and Humanities - Department of History

AMH 6346 - Seminar in the History of American Automobility

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Readings and research in the development of American automobility.
College of Arts and Humanities - Department of History

AMH 6429 - Seminar in Community and Local History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This seminar will introduce students to historiography, methodology and first hand experience on conducting a community history based on local and church archives.

Occasional

College of Arts and Humanities - Department of History

AMH 6592 - Seminar in Oral History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This course is designed to expose students to the use of oral history as a research technique and to provide experience in conducting professional oral history interviews.

Occasional

College of Arts and Humanities - Department of History

AMH 6909 - Research Report

College of Arts and Humanities

AMH 6918 - Directed Research

College of Arts and Humanities

AMH 6938 - Special Topics

College of Arts and Humanities

AMH 6939 - Seminar in U.S. History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Research seminar on selected topics in U.S. history. May be repeated for credit only when course content is different.

Occasional

College of Arts and Humanities - Department of History

HIS 5926 - Colloquium: History of Women and Gender

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

Readings on selected topics in the history of gender and women.

Occasional

College of Arts and Humanities - Department of History

HIS 6592 - Seminar in Oral History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Research in oral history. Fieldwork required.

Occasional

College of Arts and Humanities - Department of History

American Literature

AML 5917 - Directed Research

College of Arts and Humanities

AML 5937 - Special Topics

College of Arts and Humanities

AML 6909 - Research Report

College of Arts and Humanities

AML 6918 - Directed Research

College of Arts and Humanities

AML 6938 - Special Topics

College of Arts and Humanities

Anthropology: Graduate

ANG 5094 - Writing in Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or MA in Anthropology programs, or C.I. Develop scholarly writing skills specific to anthropology in terms of engagement with literature, crafting of arguments, as well as the style of expression and quoting.

Fall

College of Sciences - Department of Anthropology

ANG 5128 - Lithic Analysis: The Archaeology of Stone Tools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Anthropology MA program, Integrative Anthropological Sciences PhD program, or C.I.

Introduces the manufacturing and analysis of flaked stone tools. Students will work with both archaeological and experimental collections, and manufacture stone tools.

Odd Spring

College of Sciences - Department of Anthropology

ANG 5165 - Archaeology of Pre-Columbian South America

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD program, or C.I.

Examines South American archaeology over fifteen thousand years, including but going beyond the Andes. Provides context for anthropological research throughout South America.

Even Spring

College of Sciences - Department of Anthropology

ANG 5166 - Problems in Maya Studies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies.

Occasional

College of Sciences - Department of Anthropology

ANG 5188 - Paleoethnobotany**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Anthropology MA program or C.I. Knowledge and understanding of paleoethnobotany sufficient to understand, interpret, and evaluate plant data in archaeological, paleoecological, and contemporary research.

Odd Spring

College of Sciences - Department of Anthropology

ANG 5191 - Mortuary Archaeology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Funerary customs and human remains; basic data collection, skeletal analysis, and comparative study of mortuary ritual-ancient and modern.

Occasional

College of Sciences - Department of Anthropology

ANG 5195C - A Pot for All Seasons: Archaeological Ceramic Analysis**3 Credit Hours**

Class Hours: 1.5

Lab and Field Work Hours: 1.5

Contact Hours: 1.5

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Provides students with the skills, knowledge and ability to classify, analyze, and interpret ceramic artifacts commonly recovered from archaeological sites.

Odd Fall

College of Sciences - Department of Anthropology

ANG 5228 - Maya Iconography

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features.

Odd Spring

College of Sciences - Department of Anthropology

ANG 5307 - Peoples and Cultures of Latin America

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Latin American culture focusing on indigenous history, colonialism, traditional peoples, social change, and modernization.

Occasional

College of Sciences - Department of Anthropology

ANG 5341 - Caribbean Cultures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Historical and contemporary overview of the societies and cultures of the Caribbean region, including effects of colonization by the Dutch, Spanish, British, and French.

Occasional

College of Sciences - Department of Anthropology

ANG 5441 - Anthropology of Cities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

An anthropological exploration of cities and their social systems in the past and present.

Even Spring

College of Sciences - Department of Anthropology

ANG 5462 - Medical Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Topics in ethnography of medical traditions and anthropological approaches to the study of health and disease.

Occasional

College of Sciences - Department of Anthropology

ANG 5468 - Anthropology of the Body

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Critically examines the body from the perspective of cultural anthropology.

Even Spring

College of Sciences - Department of Anthropology

ANG 5486 - Quantitative Research in Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Anthropology program, admission to Integrative Anthropological Sciences PhD program, or C.I.

Quantitative approaches to problems in anthropology, including multivariate systems, assessment of reliability, and approaches for small samples.

Odd Fall, Even Fall

College of Sciences - Department of Anthropology

ANG 5525C - Human Osteology

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD or C.I.

The human skeleton and the methodology and techniques involved in the anthropological assessment of skeleton remains.

Odd Fall, Even Fall

College of Sciences - Department of Anthropology

ANG 5531 - Nutritional Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

The biological, social, cultural, psychological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary and ecological.

Even Fall

College of Sciences - Department of Anthropology

ANG 5622 - Language, Culture and Pedagogy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Linguistic and cultural issues in the learning needs of students from culturally diverse populations.

Occasional

College of Sciences - Department of Anthropology

ANG 5738 - Advanced Medical Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies Graduate certificate, or C.I.

Advanced topics in ethnography of medical traditions and anthropological approaches to the study of health and disease.

Occasional

College of Sciences - Department of Anthropology

ANG 5742 - Problems in Forensic Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.
Current issues and topics in forensic anthropology.
Even Spring

College of Sciences - Department of Anthropology

ANG 5822 - Maya Field Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.
Practical application of method and theory during primary infield research in the Maya area.
Spring

College of Sciences - Department of Anthropology

ANG 5852 - GIS Methods in Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD or GIS certificate.
Overview to Geographic Information Systems (GIS) methods from an anthropological perspective.
Odd Fall, Even Fall

College of Sciences - Department of Anthropology

ANG 5853 - Advanced GIS Methods in Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ANG 5852 and admission to Anthropology MA program, GIS graduate certificate, or C.I.
Advanced methods to Geographic Information Systems (GIS) from an anthropological perspective.
Odd Spring, Even Spring

College of Sciences - Department of Anthropology

ANG 5854 - Digital Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD, or C.I. Explores how anthropology applies digital technologies to exploring humanity's past, present, and future. This exploration is grounded by developing anthropologically based, transferable methods and skills.
Even Fall

College of Sciences - Department of Anthropology

ANG 5917 - Directed Research

College of Sciences

ANG 5937 - Special Topics

College of Sciences

ANG 5944 - Internship

College of Sciences

ANG 5950 - Geospatial and Archaeological Field School at Kerkenes

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 1

Prerequisite(s): Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD, GIS Graduate Certificate, or C.I.

Provides hands-on experience using geospatial technologies and archaeological methodologies on an archaeological project through Study Abroad. Fulfills an elective requirement for the GIS Graduate Certificate.

Odd Summer, Even Summer

College of Sciences - Department of Anthropology

ANG 5951 - Geophysical Field School at Kerkenes

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 1

Provides hands-on experience using geophysical technologies on an archaeological project through Study Abroad. Fulfills an elective requirement for the GIS Graduate Certificate.

Odd Summer, Even Summer

College of Sciences - Department of Anthropology

ANG 6002 - Proseminar in Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Central concepts, theories, resources, and methods fundamental to cultural anthropology, human ecology, physical anthropology, and archaeology.

Occasional

College of Sciences - Department of Anthropology

ANG 6003 - Ethics in Anthropology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Ethical issues and concepts practitioners of integrative anthropological sciences confront across various academic, research, and public domains.

Occasional

College of Sciences - Department of Anthropology

ANG 6021 - Advanced Topics in Environmental Transformations**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs, or C.I.

Anthropological, archaeological, ecological, and geographical approaches to understanding human interactions with landscapes and environments through time.

Odd Spring

College of Sciences - Department of Anthropology

ANG 6076 - Remote Sensing Methods in Anthropology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ANT4852 and ANT4854 or ANG5852 and ANG5853 or ANG7075, or C.I.

An introduction to remote sensing methods, applicable across a wide range disciplines, from an anthropological perspective. Fulfills an elective requirement for the GIS Graduate Certificate.

Occasional

College of Sciences - Department of Anthropology

ANG 6110 - Archaeological Theory and Method

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.
History and current theory and methods used by archaeologists to interpret past behavior.

Odd Fall, Even Fall

College of Sciences - Department of Anthropology

ANG 6125C - Applied Materials Analysis in Anthropological Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences and M.A. in Anthropology programs or C.I.
Techniques used for analysis of biological and man-made materials, the interpretation of results produced, and their impact on the reconstruction of human biology and history.

Even Fall

College of Sciences - Department of Anthropology

ANG 6144 - Contemporary Problems in the Study of Complex Societies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I.
Examination of the processes that fostered the rise of complex societies, including the dynamics behind cultural evolution, societal expansion, and collapse.

Occasional

College of Sciences - Department of Anthropology

ANG 6168 - The Ancient Maya

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Overview of the archaeology of the ancient Maya of Mexico, Belize, Guatemala, and upper Mexico.

Odd Fall

College of Sciences - Department of Anthropology

ANG 6181C - GIS Applications in Anthropology

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to Anthropology MA program, Maya Studies graduate certificate, or C.I.

Application of geographic information systems methodology for the documentation and analysis of anthropological, archeological and forensic problems.

Spring

College of Sciences - Department of Anthropology

ANG 6184 - Advances in Archaeological Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Topics concerning cultural resource management as a professional field within anthropology, and specifically, anthropological archaeology.

Occasional

College of Sciences - Department of Anthropology

ANG 6189 - Integrative Isotopic Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Ph.D. in Integrative Anthropological Sciences program or C.I.

Theoretical and methodological approaches to stable isotope analysis and its application in the interpretation of human migration, diet, disease, environment, and physiology.

Even Spring

College of Sciences - Department of Anthropology

ANG 6324 - Contemporary Maya

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology M.A. program, Maya Studies graduate certificate, or C.I. Overview of the cultures and peoples comprising the contemporary Maya of Central America.
Even Fall

College of Sciences - Department of Anthropology

ANG 6405 - Food Security and Sustainability

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Global concepts of food security and sustainability including an examination of the social, economic, and environmental dimensions of how humans produce and consume food.
Occasional

College of Sciences - Department of Anthropology

ANG 6411 - Business Practices for the Anthropological Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Examination of the culture and philosophy of business management, introducing business concepts and practices within anthropological sciences.
Occasional

College of Sciences - Department of Anthropology

ANG 6466 - Contemporary Problems in the Anthropology of Mental Health

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. The study of mental health and mental illness from the perspective of practitioners, researchers and psychological/psychiatric anthropologists.
Odd Fall

College of Sciences - Department of Anthropology

ANG 6467 - Advanced Topics in Medical Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs, or C.I. Examination of advanced topics in the cultural construction of health and illness.

Even Spring

College of Sciences - Department of Anthropology

ANG 6474 - Science, Technology, and the Transformation of Human Societies**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Integrative Anthropological Sciences PhD, or C.I.

Examines the ways in which scientific methods and technology are applied to social transformation within the integrative anthropological sciences.

Odd Fall, Even Fall

College of Sciences - Department of Anthropology

ANG 6498 - Advanced Qualitative Methods in Anthropology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ANG 6801 and Admission to the Ph.D. in Integrative Anthropological Sciences Ph.D. program or C.I. Advanced qualitative methods including data collection and analysis, writing ethnographies, and research presentation.

Spring

College of Sciences - Department of Anthropology

ANG 6520C - Advanced Human Osteology**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Advanced seminar on methods and theory pertaining to the study of the human skeleton.

Material and Supply Fee: \$20.00 *Occasional*

College of Sciences - Department of Anthropology

ANG 6536 - Advances in Bioarchaeology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ANG 6520C and Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Advanced bioarchaeological analysis of cultural and historical processes that affect human skeletal remains.

Odd Fall

College of Sciences - Department of Anthropology

ANG 6587 - Seminar in Biological Anthropology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Topics in biological anthropology including focus on human biological variation and adaptation.

Occasional

College of Sciences - Department of Anthropology

ANG 6701 - Public and Applied Anthropology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Explores anthropological approaches to important present-day cultural, political, economic, and environmental issues.

Odd Fall

College of Sciences - Department of Anthropology

ANG 6740C - Advanced Forensic Anthropology**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Advanced theory and laboratory methods in forensic anthropology, including forensic skeletal analysis and interpretation.

Material and Supply Fee: \$9.10 *Occasional*

College of Sciences - Department of Anthropology

ANG 6801 - Ethnographic Research Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, integrative Anthropological Sciences Phd, or C.I.

Ethnographic research techniques and praxis: data collection and analysis, writing ethnographies, and research presentation.

Odd Fall, Even Fall

College of Sciences - Department of Anthropology

ANG 6821 - Forensic Archeology Field Methods**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Maya Studies GC, or C.I.

Application of archeological techniques to the search, recovery, excavation and documentation of modern human remains.

Material and Supply Fee: \$22.00 *Occasional*

College of Sciences - Department of Anthropology

ANG 6908 - Independent Study

College of Sciences

ANG 6909 - Research Report

College of Sciences

ANG 6918 - Directed Research

College of Sciences

ANG 6930 - Seminar in Cultural Anthropology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Theoretical foundations and contemporary issues in the study of living cultures.

Odd Spring, Even Spring

College of Sciences - Department of Anthropology

ANG 6931 - Science, Technology, and the Transformation of Human Societies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Scientific methods and technology as they affect social transformation within the integrative anthropological sciences.

Fall

College of Sciences - Department of Anthropology

ANG 6938 - Special Topics

College of Sciences

ANG 6946 - Internship

College of Sciences

ANG 6958 - Study Abroad

College of Sciences

ANG 6971 - Treatise(Thesis or Research Report)

College of Sciences

ANG 6973 - Thesis-Specialist

College of Sciences

ANG 7075 - Advanced Anthropological Topics in Geospatial Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ANG 5852 and Admission to the Ph.D. in Integrative Anthropological Sciences program or C.I. Advanced application of geographic information systems methodology for the documentation and analysis of anthropological, archaeological, and forensic problems.

Odd Spring, Even Spring

College of Sciences - Department of Anthropology

ANG 7496 - Advanced Quantitative Methods in Anthropology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ANG 5486 and Admission to the Ph.D. in Integrative Anthropological Sciences program or C.I. Advanced quantitative methods in anthropology, including multivariate systems, assessment of reliability, and approaches for small samples.

Spring

College of Sciences - Department of Anthropology

Anthropology

ANT 5937 - Special Topics

College of Sciences

ANT 6909 - Research Report

College of Sciences

ANT 6918 - Directed Research

College of Sciences

ANT 6938 - Special Topics

College of Sciences

ANT 6949 - Cooperative Education in Anthropology

College of Sciences

Applied Kinesiology

APK 5907 - Independent Study

0 - 99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Independent Study.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 5917 - Directed Research

0 - 99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Directed Research.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 5957 - Study Abroad**0 - 99 Credit Hours**

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Study Abroad.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 6703 - Statistical Methods in Kinesiology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Kinesiology MS or Education PhD Exercise Physiology track or C.I.

Overview of the statistical evaluation in kinesiology; analysis of data, descriptive and inferential statistics, interpretation of results.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 6713 - Research Methods in Kinesiology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Kinesiology MS program or Education PhD-Exercise Physiology track or C.I.
Examination of scientific inquiry and the research-based development of knowledge within the discipline of kinesiology.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 6908 - Independent Study

0-99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Independent Study.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 6918 - Directed Research

0 - 99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Directed Reserach.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 6946 - Practicum, Clinical Practice

0 - 99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Kinesiology Practicum or Clinical Practice.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 6958 - Study Abroad

0 - 99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Study Abroad.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 6971 - Thesis

0 - 99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): C.I.

Thesis

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 7139 - Exercise Biochemistry Techniques

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Sport and Exercise Science--Applied Exercise Physiology track or the Ph.D. in Education--Exercise Physiology track.

A course in laboratory instrumentation and methodologies for determining the composition of biological samples.

Focuses on application and interpretation of methodologies.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 7919 - Doctoral Research

0 - 99 Credit Hours

Class Hours: variable

Lab and Field Work Hours: variable

Contact Hours: variable

Prerequisite(s): C.I.

Doctoral Research.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 7980 - Dissertation

0 - 99 Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): Doctoral Candidacy and C.I.

Dissertation.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

APK 7981 - Dissertation Proposal Preparation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Kinesiology PhD program and C.I.

Theoretical and practical development of dissertation project(s) and preparation for dissertation proposal prior to entering candidacy.

Odd Summer, Even Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

Applied Music: Brasses

MVB 5451 - Trumpet V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVB 5452 - French Horn V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVB 5453 - Trombone V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.
May be repeated for credit.
Fall, Spring

College of Arts and Humanities - Department of Music

MVB 5454 - Baritone V

2 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 0
Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.
May be repeated for credit.
Fall, Spring

College of Arts and Humanities - Department of Music

MVB 5455 - Tuba V

2 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 0
Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.
May be repeated for credit.
Fall, Spring

College of Arts and Humanities - Department of Music

MVB 5917 - Directed Research

College of Arts and Humanities

MVB 5937 - Special Topics

College of Arts and Humanities

MVB 6461 - Trumpet VI

2 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of trumpet performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVB 6462 - French Horn VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into M.A. in Music degree program and audition.

Intensive advanced study of French Horn performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVB 6463 - Trombone VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of trombone performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVB 6464 - Euphonium VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of euphonium performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVB 6465 - Tuba VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of tuba performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVB 6909 - Research Report

College of Arts and Humanities

MVB 6918 - Directed Research

College of Arts and Humanities

MVB 6938 - Special Topics

College of Arts and Humanities

Applied Music: Jazz

MVJ 5350C - Jazz Piano V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Audition, graduate standing or senior standing, and C.I.

Study of jazz piano literature, styles, and techniques. May be used in the degree program a maximum of 3 times.

Fall, Spring

College of Arts and Humanities - Department of Music

MVJ 5353C - Jazz Guitar V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Audition, graduate standing or senior standing, and C.I.

Study of jazz guitar literature, styles and techniques. May be used in the degree program a maximum of 3 times only when course content is different.

Fall, Spring

College of Arts and Humanities - Department of Music

MVJ 5354C - Jazz Bass V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Audition, graduate standing or senior standing, and C.I.

Study of jazz bass literature, styles and techniques. May be used in the degree program a maximum of 3 times only when course content is different.

Fall, Spring

College of Arts and Humanities - Department of Music

MVJ 5359C - Jazz Drum Set V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Audition, graduate standing or senior standing, and C.I.

Study of jazz drum set literature, styles, and techniques. May be used in the degree program a maximum of 3 times only when course content is different.

Material and Supply Fee: \$35.00 *Fall, Spring*

College of Arts and Humanities - Department of Music

MVJ 6369C - Jazz Drum Set VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into the MA in Music and an audition.

Advanced study of jazz drum set literature, styles and techniques; continuation of Jazz Drum Set V. May be used in the degree program a maximum of 3 times only when course content is different.

Material and Supply Fee: \$35.00 *Fall, Spring*

College of Arts and Humanities - Department of Music

MVJ 6460C - Jazz Piano VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission to MA in Music and an audition.

Advanced study of jazz piano literature, styles, and techniques; continuation of Jazz Piano V. May be used in the degree program a maximum of 3 times.

Fall, Spring

College of Arts and Humanities - Department of Music

MVJ 6463C - Jazz Guitar VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission to the MA in Music and an audition.

Advanced study of jazz guitar literature, styles and techniques; continuation of Jazz Guitar V. May be used in the degree program a maximum of 3 times only when course content is different.

Fall, Spring

College of Arts and Humanities - Department of Music

MVJ 6464C - Jazz Bass VI**2 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into the MA in Music and an audition.

Advanced study of jazz bass literature, styles and techniques; continuation of Jazz Bass V. May be used in the degree program a maximum of 3 times only when course content is different.

Fall, Spring

College of Arts and Humanities - Department of Music

MVJ 6952 - Jazz VI**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into M.A. in Music degree program and audition.

Intensive advanced study of jazz performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - School of Performing Arts

Applied Music: Keyboard**MVK 5451 - Piano V****2 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVK 5917 - Directed Research

College of Arts and Humanities

MVK 5937 - Special Topics

College of Arts and Humanities

MVK 6461 - Piano VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of piano performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVK 6909 - Research Report

College of Arts and Humanities

MVK 6918 - Directed Research

College of Arts and Humanities

MVK 6938 - Special Topics

College of Arts and Humanities

Applied Music: Other

MVO 5250 - Advanced Secondary Instruction

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing, and C.I.

Advanced instructional techniques on a secondary instrument or in voice. May be repeated for credit.

Occasional

College of Arts and Humanities - Department of Music

MVO 5917 - Directed Research

College of Arts and Humanities

MVO 5937 - Special Topics

College of Arts and Humanities

MVO 6909 - Research Report

College of Arts and Humanities

MVO 6918 - Directed Research

College of Arts and Humanities

MVO 6938 - Special Topics

College of Arts and Humanities

Applied Music: Percussion

MVP 5451 - Percussion V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Material and Supply Fee: \$35.00 *Fall, Spring*

College of Arts and Humanities - Department of Music

MVP 5917 - Directed Research

College of Arts and Humanities

MVP 5937 - Special Topics

College of Arts and Humanities

MVP 6461 - Percussion VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of percussion instruments. May be used in the degree program a maximum of 4 times.

Material and Supply Fee: \$35.00 *Odd Fall*

College of Arts and Humanities - Department of Music

MVP 6909 - Research Report

College of Arts and Humanities

MVP 6918 - Directed Research

College of Arts and Humanities

MVP 6938 - Special Topics

College of Arts and Humanities

Applied Music: Strings

MVS 5451 - Violin V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVS 5452 - Viola V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVS 5453 - Cello V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVS 5454 - Bass V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVS 5455 - Harp V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVS 5456 - Guitar V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be used in the degree program a maximum of 4 times.

Fall, Spring

College of Arts and Humanities - Department of Music

MVS 5917 - Directed Research

College of Arts and Humanities

MVS 5937 - Special Topics

College of Arts and Humanities

MVS 6461 - Violin VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of violin performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVS 6462 - Viola VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of viola performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVS 6463 - Cello VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of cello performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVS 6465 - Harp VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of harp performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVS 6466 - Classical Guitar VI

2 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of classical guitar performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVS 6467 - Bass VI

2 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of string bass performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVS 6909 - Research Report

College of Arts and Humanities

MVS 6918 - Directed Research

College of Arts and Humanities

MVS 6938 - Special Topics

College of Arts and Humanities

Applied Music: Voice

MVV 5451 - Voice V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate standing or senior standing and C.I.

May be used in the degree program a maximum of 4 times.

Fall, Spring

College of Arts and Humanities - Department of Music

MVV 5651 - Voice Pedagogy**2 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Vocal function, anatomy, and pedagogical methodology with application to the voice teacher and performer.

Odd Spring

College of Arts and Humanities - Department of Music

MVV 5917 - Directed Research

College of Arts and Humanities

MVV 5937 - Special Topics

College of Arts and Humanities

MVV 6452 - Voice VI**2 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of vocal performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVV 6909 - Research Report

College of Arts and Humanities

MVV 6918 - Directed Research

College of Arts and Humanities

MVV 6938 - Special Topics

College of Arts and Humanities

Applied Music: Woodwinds

MVW 5451 - Flute V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVW 5452 - Oboe V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVW 5453 - Clarinet V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVW 5454 - Bassoon V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVW 5455 - Saxophone V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate status or senior standing and C.I.

May be repeated for credit.

Fall, Spring

College of Arts and Humanities - Department of Music

MVW 5917 - Directed Research

College of Arts and Humanities

MVW 5937 - Special Topics

College of Arts and Humanities

MVW 6461 - Flute VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study of flute performance. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MVW 6462 - Oboe VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of oboe performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVW 6463 - Clarinet VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of clarinet performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVW 6464 - Bassoon VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of bassoon performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVW 6465 - Saxophone VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.
Intensive advanced study of saxophone performance. May be used in the degree program a maximum of 4 times.
Odd Fall

College of Arts and Humanities - Department of Music

MVW 6909 - Research Report

College of Arts and Humanities

MVW 6918 - Directed Research

College of Arts and Humanities

MVW 6938 - Special Topics

College of Arts and Humanities

Arabic Language

ARA 5917 - Directed Research

College of Arts and Humanities

ARA 5937 - Special Topics

College of Arts and Humanities

Art

ART 5280 - Serial Content

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA or Digital Media M.A., Graduate Standing, or C.I.
Sequential design, production methods and materials in visual arts.

Material and Supply Fee: \$45.00 *Occasional*

College of Arts and Humanities - School of Visual Arts and Design

ART 5284 - Design Theory and Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA or C.I.
Introduction to semiotic theory, communication theory, perceptual codes, human factors and visual rhetoric.
Material and Supply Fee: \$45.00 *Occasional*

College of Arts and Humanities - School of Visual Arts and Design

ART 5390C - Advanced Drawing

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 2

Prerequisite(s): Graduate Standing or C.I.

Students are expected to develop an individual series of works that demonstrate advanced drawing concepts and techniques.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ART 5410C - Advanced Printmaking

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA, Studio Art track.

Advanced problems in printmaking, including graduate level production, presentation, and evaluation criteria.

Spring, Fall

College of Arts and Humanities - School of Visual Arts and Design

ART 5585C - Advanced Painting

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA, Studio Art track.

Advanced problems in sculpture, including graduate level production, research, presentation, and evaluation criteria.

Spring, Fall

College of Arts and Humanities - School of Visual Arts and Design

ART 5696 - Art, Design and Human Interactions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA or C.I.

Exploration and design of interface interactions systems and technologies in contemporary society and culture including place making, way finding, electronic interface design, and publication design.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ART 5698 - Concourse I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ART 5910 and ART 5280 and ART 5694 , or C.I.

Digital reproduction of studio works.

Material and Supply Fee: \$45.00 *Fall*

College of Arts and Humanities - School of Visual Arts and Design

ART 5745C - Advanced Sculpture**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA, Studio Art Track.

Advanced problems in sculpture, including graduate level production, research, presentation, and evaluation criteria.

Spring, Fall

College Arts and Humanities - School of Visual Arts and Design

ART 5796C - Advanced Ceramics**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 2

Prerequisite(s): Emerging Media: Studio Art & Design or C.I.

Students respond to Chinese, Korean, Japanese, Middle Eastern, European, and American ceramics; clay properties, test tile manufacture, terminology, design, demonstrations, glazing, and firing procedures.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ART 5811 - The Professional Practice of Art**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Seminar class overview includes: digital documentation, inventory processing, accounting, art marketing, proposal writing, internships/residencies, art theory/criticism, and may include attending arts events, etc.

Material and Supply Fee: \$45.00 *Fall*

College of Arts and Humanities - School of Visual Arts and Design

ART 5910 - Studio Concentration I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MFA. Course is the primary for production of work in studio.

Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be used in the degree program a maximum of 3 times.

Material and Supply Fee: \$45.00 *Fall, Spring*

College of Arts and Humanities - School of Visual Arts and Design

ART 5917 - Directed Research

College of Arts and Humanities

ART 5937 - Special Topics

College of Arts and Humanities

ART 5941 - Graduate Practicum I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Web Art I, graduate status, or C.I.

Candidates with cross-disciplinary interests will discuss and analyze issues in digital art making via the internet.

Students will use this information to develop projects in their specialization.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ART 6683 - Time Arts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA program or C.I.

Explore established and experimental approaches to the visual representation of movement, space, and time.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ART 6687 - Research Concentration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ART 6911 or C.I.

Advanced visual arts production course designed to assist students in conducting research, selecting committee members and refining a unique style or unified theme. Studio/critique model.

Spring

College of Arts and Humanities - School of Visual Arts and Design

ART 6689 - Research Concentration II**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ART 6687 Prerequisite(s) or Corequisite(s): ART 6699.

Continuation of Research Concentration I. Produce an interactive body of art work under a unified theme.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ART 6699 - Concourse II**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ART 5698. Continuation of Concourse I.

Digital work used to create group web exhibit and interactive portfolio.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ART 6743C - Intermedia Design**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): Admission to Emerging Media MFA or C.I.

Enhancing material sense and repertoire regarding material selection, combination, and contextualization in static and dynamic projects. Design integration and enhanced structural awareness via media emphasized.

Material and Supply Fee: \$35.00 *Occasional*

College of Arts and Humanities - School of Visual Arts and Design

ART 6909 - Research Report

College of Arts and Humanities

ART 6911C - Studio Concentration

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): Admission to Emerging Media MFA or C.I.

Over this repeatable four-course sequence, students will create individually driven studio work that evolves in materials, depth, scope, and content by building upon prior efforts.

Material and Supply Fee: \$45.00 *Fall, Spring*

College of Arts and Humanities - School of Visual Arts and Design

ART 6918 - Directed Research

College of Arts and Humanities

ART 6930 - Graduate Seminar

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Emerging Media MFA, graduate standing or C.I.

Interactive discussions centered on art, aesthetics, culture, technology, and/or industry. May include select readings, writing assignments, instructor/guest lectures, and/or participating in arts events.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Arts and Humanities - School of Visual Arts and Design

ART 6938 - Special Topics

College of Arts and Humanities

ART 6942 - Graduate Practicum II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Web Art I, Graduate Practicum I.

Candidates with cross-disciplinary interests will discuss and analyze digital art making via the internet. Students will apply principals from Practicum I and Internet projects.

Spring

College of Arts and Humanities - School of Visual Arts and Design

ART 6949 - Cooperative Education in Art

College of Arts and Humanities

Art Education

ARE 5251 - Art for Exceptionalities

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped.

Occasional

College of Community Innovation and Education - School of Teacher Education

ARE 5255 - Arts in Recreation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas.

College of Community Innovation and Education - School of Teacher Education

ARE 5359 - Teaching Art K-12

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to MA in Art Education, graduate standing or C.I.

Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12.

Material and Supply Fee: \$5.00 *Summer*

College of Community Innovation and Education - School of Teacher Education

ARE 5454 - Studio Experiences in Art Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate admission or C.I.

Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit.

Material and Supply Fee: \$10.00 *Spring, Summer*

College of Community Innovation and Education - School of Teacher Education

ARE 5917 - Directed Research

College of Community Innovation and Education

ARE 5937 - Special Topics

College of Community Innovation and Education

ARE 6195 - Teaching Art Appreciation with Interdisciplinary Strategies**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Graduate status and public school teaching experience.

Focuses on the examination of art appreciation examples and concepts toward planning curriculum (interdisciplinary for the study of art history, criticism, and aesthetics).

Material and Supply Fee: \$5.00 *Fall*

College of Community Innovation and Education - School of Teacher Education

ARE 6450 - K-12 Instructional Materials**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

A historical examination of art education curriculum along with developing learning experiences and visual resources (slides, transparencies, technology) from art works, and documentation.

Occasional

College of Community Innovation and Education - School of Teacher Education

ARE 6666 - Arts Advocacy

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Graduate Standing or C.I. The study and development of plans to produce arts advocacy programs for the public school system.

Material and Supply Fee: \$5.00 *Occasional*

College of Community Innovation and Education - School of Teacher Education

ARE 6747 - Assessment Seminar in Art Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examines the nature of past and present assessment research in art education, various methods of conducting this research, and how it can translate into application and contribute to the knowledge base in the field.

Odd Fall, Even Spring

College of Community Innovation and Education - School of Teacher Education

ARE 6748 - Advanced Research Seminar in Art Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examines the nature of past and present research in art education, various methods of conducting art education research, and how research can translate into practical classroom application. May be used in the program a maximum of 2 times only when course content is different. May be used in the degree program a maximum of 2 times only when course content is different.

Odd Fall, Odd Spring

College of Community Innovation and Education - School of Teacher Education

ARE 6905 - Research Trends in Art Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

This course will further prepare art education graduate students to identify and review landmark research and conduct relevant art education research. May be repeated for credit.

Spring

College of Community Innovation and Education - School of Teacher Education

ARE 6909 - Research Report

College of Community Innovation and Education

ARE 6918 - Directed Research

College of Community Innovation and Education

ARE 6938 - Special Topics

College of Community Innovation and Education

Art History

ARH 5897 - Advanced Seminar in Art History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ARH 2050 and ARH 2051 or C.I.

Research methods on various topics including: major artist, monument, cultural period or theme.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

ARH 5917 - Directed Research

College of Arts and Humanities

ARH 5933 - Seminar in African & African-American Arts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Traces African American history through visual and public art and explores how race relations in the United States were reflected in artistic forms.

College of Arts and Humanities - School of Visual Arts and Design

ARH 5937 - Special Topics

College of Arts and Humanities

ARH 6909 - Research Report

College of Arts and Humanities

ARH 6918 - Directed Research

College of Arts and Humanities

ARH 6938 - Special Topics

College of Arts and Humanities

Asian History

ASH 5229 - History of the Middle East

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Selected topics in the history of the modern Middle East. May be used in the degree program a maximum of 2 times only when course content is different.

Occasional

College of Arts and Humanities - Department of History

ASH 5408 - Colloquium in Modern China

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate status or senior standing or C.I. Course explores works of scholarship in modern China including the rise of Communism, Chinese women and Sino-American relations.

Occasional

College of Arts and Humanities - Department of History

ASH 5485 - U.S. China Relations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An in-depth study of the significant relations between China and the United States since the 18th century.

Even Fall

College of Arts and Humanities - Department of History

ASH 5917 - Directed Research

College of Arts and Humanities

ASH 5925 - Colloquium in South Asian History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Addresses key themes in South Asian history through selected readings. May be used in the degree program a maximum of 3 times only when course content is different.

Occasional

College of Arts and Humanities - Department of History

ASH 5926 - Colloquium in East Asian History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Colloquium in historiography of East Asia. Examines how historians have interpreted the history of China, Japan, and Korea, from the nineteenth century to the 1960s.

Occasional

College of Arts and Humanities - Department of History

ASH 5937 - Special Topics

College of Arts and Humanities

ASH 6909 - Research Report

College of Arts and Humanities

ASH 6918 - Directed Research

College of Arts and Humanities

ASH 6936 - Seminar in US-China Relations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Historiographical interrogations of the intricate relations between the United States and China from 1900 to the present.

Occasional

College of Arts and Humanities - Department of History

ASH 6938 - Special Topics

College of Arts and Humanities

ASH 6939 - Seminar in Asian History**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ASH 5926, or ASH 5925, or C.I.

Students learn the elements of historical research and writing that go into producing an original research paper in Asian history.

Occasional

College of Arts and Humanities - Department of History

Astronomy**AST 5038 - Astrobiology****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, or C.I..

Discusses the history of the Solar System, the origin of life on Earth, and how and where to search for life elsewhere.

Even Fall

College of Sciences - Department of Physics

AST 5145 - Advanced Asteroids, Comets, and Meteorites**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An advanced study of physical, chemical, mineralogical and orbital characteristics of Asteroids, Comets and Meteorites, with an emphasis on the origin of our solar system.

Odd Spring

College of Sciences - Department of Physics

AST 5151 - Physics of Planetary Processes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing. Undergraduates may take the course with approval.

Core course for planetary track students. Provides an overview of the physical basis of molecular spectroscopy, radiative transfer basics, thermodynamics and condensed matter physics from the perspective of planetary science.

Odd Spring

College of Sciences - Department of Physics

AST 5154 - Advanced Planetary Geophysics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Physics MS or PhD or C.I.

The physics of planetary evolution, planetary interiors, and planetary surface processes.

Even Fall

College of Sciences - Department of Physics

AST 5263 - Advanced Observational Astronomy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in the Physics department or C.I.

Experimental design and experimental techniques in astrophysics; spherical astronomy; physics of telescopes and of common astronomical detectors; error analysis.

Even Spring

College of Sciences - Department of Physics

AST 5334 - Extrasolar Planets and Brown Dwarfs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Physics M.S. or Physics Ph.D., or C.I.

Substellar-mass objects, their formation, evolution, dynamics, detection, and environments.

Odd Spring

College of Sciences - Department of Physics

AST 5765C - Advanced Astronomical Data Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): MAC 2313, a 3000-level or higher course in astronomy or planetary science, ability to write simple computer programs, or C.I.

Advanced astronomical data formation and acquisition, detector physics, measurement extraction, error analysis, modeling, computer programming, statistics, interpretation, and written and oral presentation of results.

Fall

College of Sciences - Department of Physics

AST 5917 - Directed Research

College of Sciences

AST 5937 - Special Topics

College of Sciences

AST 5949 - Cooperative Education

College of Sciences

AST 6112 - Origin and Evolution of Planetary Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Physics or C.I.

Observations and properties of extrasolar planets and circumstellar disks through physics of disk evolution and planet formation and dynamical evolution of planetary systems.

Odd Spring

College of Sciences - Department of Physics

AST 6156 - Current Topics in Planetary Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Planetary Sciences M.S./Ph.D. or C.I.

Review and analyze current advances in planetary science, particularly science results from recent discoveries. The focus of the course will vary depending on current discoveries. May be used in the degree program a maximum of 3 times.

Occasional

College of Sciences - Department of Physics

AST 6165 - Planetary Atmospheres**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): AST 5151 Physics of Planetary Processes, PHY 6246 Classical Mechanics, graduate status or senior standing, or C.I.

This course examines the physical and chemical processes that govern the atmospheres of Earth and other planets.

Even Spring

College of Sciences - Department of Physics

AST 6909 - Research Report

College of Sciences

AST 6918 - Directed Research

College of Sciences

AST 7919 - Doctoral Research**VAR Credit Hours**

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Doctoral standing.

Doctoral research. May be repeated for credit.

Fall, Spring, Summer

College of Sciences - Department of Physics

AST 7980 - Doctoral Dissertation

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Candidacy status.

Doctoral dissertation. May be repeated for credit.

Fall, Spring, Summer

College of Sciences - Department of Physics

Athletic Training

ATR 5016 - Foundational Behaviors of Athletic Training Practice I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to MAT degree program.

The roles responsibilities of an athletic trainer in the evolving healthcare system; including professionalism, information fluency, and healthcare ethics, laws and regulations.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5017 - Foundational Behaviors of Athletic Training Practice II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to MAT degree program.

The roles responsibilities of an athletic trainer in the evolving healthcare system, including patient-centered care, collaborative care, and the influence of culture and other social determinants of health on healthcare.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5106C - Prevention of Injury and Illness in Athletic Training Practice

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Admission to MAT degree program. Physiological, psychological, and sociological aspects of health and wellness and the prevention of injury and illness; includes physical fitness, nutrition/hydration, flexibility and prophylactic taping/bracing.

Material and Supply Fee: \$70 *Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5117C - Acute Care in Athletic Training Practice I

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to MAT degree program.

Emergency preparedness and the evaluation and management of acute conditions and brain injuries.

Material and Supply Fee: \$57 *Occasional*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5206C - Functional Human Anatomy for Athletic Trainers

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Admission to MAT degree program. Anatomical knowledge and clinical skills essential to the practice of athletic training; including knowledge of functional anatomy, manual muscle testing, goniometry, posture and gait analysis.

Material and Supply Fee: \$4 *Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5217C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice II

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): ATR 5219C.

A regional study of evaluation, diagnosis, and immediate treatment of lower extremity injuries.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5219C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice I

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): Admission to MAT degree program.

A regional study of evaluation, diagnosis, and immediate treatment of head, neck, and spine injuries (including brain injuries).

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5306C - Therapeutic Interventions in Athletic Training Practice I

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): Admission to MAT degree program.

Therapeutic interventions for head, neck, and spine musculoskeletal dysfunction (including brain injury).

Material and Supply Fee: \$5 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5307C - Therapeutic Interventions in Athletic Training Practice II

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): ATR 5306C.

Therapeutic interventions for lower extremity musculoskeletal dysfunction.

Material and Supply Fee: \$21 *Spring*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5406C - General Medical Conditions in Athletic Training Practice I

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Enrolled MAT degree program.

Clinical skills essential to the practice of athletic training. Clinical skills stressed in this course include the evaluation, recognition, treatment, and referral of general medical conditions/illnesses.

Material and Supply Fee: \$4 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5516 - Healthcare Administration in Athletic Training Practice I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to MAT degree program.

Policy, law, ethics, informatics and information management are explored with regard to the practice of athletic training.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5617 - Athletic Training Research I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to MAT degree program.

Evidence-based practice as well as research methods, ethics and regulations in an effort to identify a meaningful question and concept for a capstone project.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5815L - Practicum in Athletic Training I

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 10

Contact Hours: 2

Prerequisite(s): ATR 5117C.

Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Students are supervised by an assigned Preceptor.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 5825L - Practicum in Athletic Training II

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 10

Contact Hours: 2

Prerequisite(s): ATR 5815L.

Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Students are supervised by an assigned Preceptor.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6118L - Acute Care in Athletic Training Practice II

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 0

Review, update and practice emergency preparedness and the evaluation and management of acute conditions. This course will be entirely scenario based.

Odd Spring, Even Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6218C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice III**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): ATR 5217C.

A regional study of evaluation, diagnosis, and immediate treatment of upper extremity injuries.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6308C - Therapeutic Interventions in Athletic Training Practice III**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): ATR 5307C.

Therapeutic interventions for upper extremity musculoskeletal dysfunction.

Material and Supply Fee: \$22 *Occasional*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6309C - Therapeutic Interventions in Athletic Training Practice IV**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): ATR 6308C. Corequisite(s): ATR 6845L.

Psychological aspects of rehabilitation and performance are explored. Rehabilitation protocols and evidence-based practices are employed in the context of actual patient care.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6407C - General Medical Conditions in Athletic Training Practice II

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): ATR 5406C.General Medical Conditions in Athletic Training Practice I.

Clinical skills essential to the practice of athletic training. Clinical skills stressed in this course include the evaluation, recognition, treatment, and referral of general medical conditions/illnesses.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6505 - Athletic Training Seminar

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Corequisite(s): Athletic Training Practicum V (ATR 6XXXXL).

Prepare for the BOC examination, review the Standards of Professional Practice, NATA Code of Ethics, and professional development requirements for the entry-level athletic trainer.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6517 - Healthcare Administration in Athletic Training Practice II

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): ATR 5516

Reimbursement, organizational administration/planning, risk mitigation/management, and emergency preparedness are explored with regard to the practice of athletic training.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6618C - Athletic Training Research II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): ATR 5617

Capstone groups will meet regularly, with guidance from a capstone adviser, to create a proposal for a capstone project.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6619C - Athletic Training Research III

4 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): ATR 6618C

This course requires the student to complete a group capstone project and disseminate the information as a scholarly product (oral or poster presentation).

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6835L - Practicum in Athletic Training III

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 1

Prerequisite(s): ATR 5825L.

Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Focus is on non-sport population, general medical conditions and/or surgical observation.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6845L - Practicum in Athletic Training IV

9 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 30

Contact Hours: 9

Prerequisite(s): ATR 6835L

Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Focus is on a fully immersed athletic training experience.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6855L - Practicum in Athletic Training V

4 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 4

Prerequisite(s): ATR 6845L

Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Students are supervised by an assigned Preceptor.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6907 - Directed Independent Study

Variable Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

This course is designed to enable the graduate student to engage in an independent study experience related to a topic/content area approved by the instructor.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6917 - Directed Research

Variable Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

This course is designed to enable the graduate student to engage in a research experience in the Athletic Training Laboratory throughout the semester.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6941 - Optional Internship

Variable Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Prerequisite(s): ATR 5117C.

Develop knowledge, skills, and attitudes by providing direct care of athletic injuries; to understand the medical delivery system in a variety of settings.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

ATR 6957 - Study Abroad

Variable Credit Hours

Class Hours: Variable

Lab and Field Work Hours: Variable

Contact Hours: Variable

Course allows a study abroad experience in the field of athletic training or sports medicine.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

Aviation Management

AVM 5917 - Directed Research

Rosen College of Hospitality Management

AVM 5937 - Special Topics

Rosen College of Hospitality Management

Basic Medical Sciences

BMS 6001 - Cellular Function and Medical Genetics

5 Credit Hours

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): Matriculation in the College of Medicine M.D. Program.

Cellular Function and Medical Genetics is an integrated, multidisciplinary, review of the basic sciences of biochemistry, molecular biology; genetic, nutrition, pharmacology and cell biology underpinning modern medicine.

Fall

College of Medicine - M.D. Program

BMS 6002 - Structure and Function

11 Credit Hours

Class Hours: 11

Lab and Field Work Hours: 0

Contact Hours: 11

Prerequisite(s): Matriculation in the College of Medicine M.D. program.

An integrated module with a curriculum that includes Clinical Anatomy, Embryology, Microanatomy, Physiology, and Neurosciences using medical imaging, clinical presentations, lectures, small-group sessions, team-based learning sessions.

Fall, Spring

College of Medicine - M.D. Program

BMS 6006 - Health and Disease

5 Credit Hours

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): Matriculation in the College of Medicine M.D. program.

Eight week module of the first year basic-science curriculum that integrates the following disciplines: immunology, microbiology, virology, pharmacology, and pathology.

Spring

College of Medicine - M.D. Program

BMS 6015 - Practice of Medicine I**7 Credit Hours**

Class Hours: 7

Lab and Field Work Hours: 0

Contact Hours: 7

Prerequisite(s): Matriculation in the College of Medicine M.D. program.

Extending throughout the first year of medical school, this module includes skills training in medical interviewing and physical examination while also addressing the context of the medical practice.

Fall, Spring

College of Medicine - M.D. Program

BMS 6016 - Practice of Medicine II**8 Credit Hours**

Class Hours: 8

Lab and Field Work Hours: 0

Contact Hours: 8

Prerequisite(s): Completion of M-1 Term.

P-2: Practice of Medicine is a year long module which teaches advanced clinical examination techniques and clinical reasoning skills integrated with organ systems modules.

Fall, Spring

College of Medicine - M.D. Program

BMS 6050 - Psychosocial Issues in Healthcare**4 Credit Hours**

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Matriculation in the College of Medicine M.D. program. This module covers the role of psychosocial factors in health and illness, emphasizing communication skills, cultural differences, human sexuality, domestic violence, and alcohol misuse.

Spring

College of Medicine - M.D. Program

BMS 6123 - Human Anatomy and Embryology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. An overview of the human body structure and development through lecture, group discussions, problem-solving, self-learning modules, team based learning, and clinical case studies.

Fall

College of Medicine - Department of Clinical Sciences

BMS 6631 - Hematology and Oncology

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Matriculation in the College of Medicine M.D. Program.

Overview of major hematologic diseases: coagulation, and basic neoplasia. Pathology, pharmacology, laboratory and clinical medicine disciplines, emphasizing disease classification, differential diagnosis, and current treatments.

Spring

College of Medicine - M.D. Program

BMS 6632 - Endocrine and Reproductive Systems

5 Credit Hours

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): Completion of M-1 Term.

The S-2 module is an integrated overview of diseases of the endocrine, reproductive, and genital systems. Pathology, pathophysiology, pharmacology, and clinical medicine disciplines are included.

Fall

College of Medicine - M.D. Program

BMS 6633 - Cardiovascular and Pulmonary Systems

5 Credit Hours

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): Completion of M-1 Term.

The Cardio/Pulmonary module is an integrated, multidisciplinary, overview of medically-relevant cardiovascular and pulmonary conditions.

Fall

College of Medicine - M.D. Program

BMS 6634 - Gastrointestinal and Renal Systems

5 Credit Hours

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): Completion of M-1 Term.

The module is one of six organ-system based modules scheduled for the M2 and end of M1 years. The module provides overview of diseases of the gastro and renal systems.

Fall

College of Medicine - M.D. Program

BMS 6635 - Skin and Musculoskeletal Systems

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Completion of M-1 Term.

The module is an integrated overview of diseases and disorders affecting the skin, connective tissues, and musculoskeletal systems.

Fall, Spring

College of Medicine - M.D. Program

BMS 6636 - Brain and Behavior

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M-1 Term.

This module integrates foundational principles of basic clinical neuroscience relevant for understanding normal nervous system function and the pathophysiologic basis of nervous system disorders.

Spring

College of Medicine - M.D. Program

BMS 6760 - Introduction to Genetic Counseling 1

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. An introduction of the basic principles of genetic counseling.
Fall

College of Medicine - Department of Clinical Sciences

BMS 6761 - Introduction to Genetic Counseling 2

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. This course is a continuation of the basic principles of Genetic Counseling.

Spring

College of Medicine - Department of Clinical Sciences

BMS 6762 - Advanced Genetic Counseling 1

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. An overview of the advanced principles of genetic counseling; understanding the importance of pedigree, how to build a rapport with patients, and prepare for interactions with clients.

Fall

College of Medicine - Department of Clinical Sciences

BMS 6763 - Advanced Genetic Counseling 2

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into M.S. Genetic Counseling Program. Overview to continue the advanced principles of genetic counseling 2; the history of genetic counseling, the professional organizations, practice guidelines, and code of ethics.

Spring

College of Medicine - Department of Clinical Sciences

BMS 6764 - Medical Biochemistry and Physiology For Genetic Counselors

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. An overview of the fundamentals of medical biochemistry and physiology for genetic counselors.

Spring

College of Medicine - Department of Clinical Sciences

BMS 6765 - Genetic Diseases of Human Organ Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. The Genetic Diseases of Human Organ Systems course provides an overview of genetic disease affecting the human organ systems through lecture, group discussions and problem solving, self-learning modules, team based learning, and clinical case studies.

Spring

College of Medicine - Department of Clinical Sciences

BMS 6766 - Inborn Errors of Metabolism**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. Overview of the fundamentals of genetic diseases associated with inborn errors of metabolism.

Summer

College of Medicine - Department of Clinical Sciences

BMS 6767 - Molecular Diagnostics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. An overview of basic laboratory skills used in molecular genetic clinical diagnostic laboratories for detecting genetic diseases.

Fall

College of Medicine - Department of Clinical Sciences

BMS 6821 - Healthcare Ethics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. An overview on the ethical issues in healthcare, and also discuss influences on ethical decisions made by healthcare providers and patients.

Fall

College of Medicine - Department of Clinical Sciences

BMS 6902 - Journal Club**1 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Matriculation into the M.S. Genetic Counseling Program. Students will review and discuss current literature relating to the practice of genetic counseling.

Fall, Spring

College of Medicine - Department of Clinical Sciences

BMS 6910 - Focused Inquiry and Research Experience**5 Credit Hours**

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): Matriculation in the College of Medicine M.D. program.

This course provides the training and mentorship enabling medical students to successfully complete rigorous, independent, scholarly research projects in fields of individual passion.

Fall, Spring

College of Medicine - M.D. Program

BMS 6911 - Focused Inquiry and Research Experience II**5 Credit Hours**

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): Focused Inquiry and Research Experience I (BMS 6910). This course provides the training and mentorship enabling medical students to successfully complete rigorous, independent, scholarly research projects in fields of individual passion.

Fall, Spring

College of Medicine - M.D. Program

BMS 6950 - Capstone 1

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Matriculation into the M.S. Genetic Counseling Program. Students will identify a Capstone case and prepare a summary of all clinical presentation, diagnostic testing, and management considerations.

Summer

College of Medicine - Department of Clinical Sciences

BMS 6951 - Capstone 2

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matriculation into the M.S. Genetic Counseling Program. Students will have a Capstone case for presentation; diagnostic testing and management considerations for a Capstone case.

Spring

College of Medicine - Department of Clinical Sciences

GMS 6860 - Statistics for Biomedical Scientists

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Introductory graduate course for Biomedical Sciences or related majors; outlines basic probabilistic and statistical concepts tailored to biomedical scientists. The course will be taught jointly by the Burnett School of Biomedical Sciences and Statistics Department with 50/50 work load split.

Occasional

College of Medicine - Burnett School of Biomedical Sciences

Biochemistry (Biophysics)

BCH 5917 - Directed Research

College of Sciences

BCH 5937 - Special Topics

College of Sciences

BCH 6740 - Advanced Biochemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Must meet proficiency requirement as determined by the Chemistry department or C.I. Biochemistry focusing on enzymology, regulation of the activity of enzymes and cellular chemical activity, and biochemical methods to study proteins.

Occasional

College of Sciences - Department of Chemistry

Biological Sciences

BSC 5316 - Marine Conservation Biology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): BSC 4312C Marine Biology, graduate standing, or C.I. Examine human impacts in marine ecosystems and how humans can become better stewards of these habitats.

Odd Spring

College of Sciences - Department of Biology

BSC 5408L - Advanced Biology Laboratory Techniques

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 9

Contact Hours: 9

Prerequisite(s): BS degree, C.I.

This course will emphasize those biological techniques and resources necessary for students about to begin thesis research. Individual and small group instruction in current laboratory techniques, literature searches, and hands-on practice of techniques will be stressed. May not be repeated for credit.

Occasional

College of Sciences - Department of Biology

BSC 5418 - Tissue Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Introduction to Tissue Engineering with a special emphasis on the current status of the field, on novel methods and on cell biomaterial interactions.

Occasional

College of Medicine - Department of Molecular and Microbiology

BSC 5436 - Biomedical Informatics : Structure Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 3522 or equivalent or C.I.

Introduction of bioinformatics tools and resources on RNA and protein structure analysis.

Fall

College of Medicine - Department of Molecular and Microbiology

BSC 5476C - Scientific Diving

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 8

Contact Hours: 4

Prerequisite(s): Graduate standing in the Dept. of Biology, and C.I.

Introduction to scientific diving and satisfies the 100 hours of training required by the American Academy of Underwater Sciences.

Occasional

College of Sciences - Department of Biology

BSC 5665 - Clinical Embryology and Congenital Malformations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ZOO 3733C or equivalent. Functional human embryology in a clinically oriented way to study the human development and congenital malformations as a result of genetic, environmental and toxic conditions.

Spring, Summer

College of Medicine - Burnett School of Biomedical Sciences

BSC 5824 - Biogeography

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate In Conservation Biology, PSM in Conservation Biology, or C.I. Study of geographic variation in nature, ranging from past to present and from genes to ecosystems.

Even Spring

College of Sciences - Department of Biology

BSC 5917 - Directed Research

College of Sciences

BSC 5937 - ST: Sensory Ecology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, or C.I.

Study of how and why animals acquire, process and use information from their environment, and how sensory systems influence evolutionary processes.

Spring

College of Sciences - Department of Biology

BSC 6407C - Laboratory Methods in Molecular Biology

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 6

Contact Hours: 7

Prerequisite(s): Graduate standing, PCB 3522 or C.I.

Description and practice of commonly used methods in molecular biology.

Material and Supply Fee: \$70.00 *Fall*

College of Medicine - Department of Molecular and Microbiology

BSC 6431 - Practice of Biomedical Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Introduces students to the practice of biomolecular science.

Fall

College of Medicine - Department of Molecular and Microbiology

BSC 6432 - Biomedical Sciences I

5 Credit Hours

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): 1) Acceptance in the Molecular Biology and Microbiology master's program, or 2) Biochem I, or Molecular Biology 1 and 2, or Cell Biology, or C.I.

First semester of a multi-disciplinary course. Topics include metabolic reactions, DNA replication and transcription.

Lectures incorporate current scientific findings in the context of biomedical applications.

Fall

College of Medicine - Department of Molecular and Microbiology

BSC 6433 - Biomedical Sciences II

5 Credit Hours

Class Hours: 5

Lab and Field Work Hours: 0

Contact Hours: 5

Prerequisite(s): BSC 6432, graduate standing.

Second semester of a multi-disciplinary course. Topics covered include protein translation, signaling and bioinformatics. Lectures incorporate current scientific findings in the context of biomedical applications.

Spring

College of Medicine - Department of Molecular and Microbiology

BSC 6614 - Advanced Topics in Systematics

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): An evolution course, C.I., admission to graduate program.

Discussion of new cutting edge topics in Systematics and hands on learning of computer data analysis in this field.

Occasional

College of Sciences - Department of Biology

BSC 6909 - Research Report

College of Sciences

BSC 6918 - Directed Research

College of Sciences

BSC 6935 - Seminar in Biology

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Biology M.S. or Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Discussions and presentations addressing current research in the field of Biology. Graded S/U. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Sciences - Department of Biology

BSC 6938 - Special Topics

College of Sciences

BSC 6938 - ST: Complex Data in Biology**4 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 5.5

Prerequisite(s): PCB 6466 Methods in Experimental Ecology I or equivalent. A basic understanding of normal statistics (regression, ANOVA, etc.), genetics, and evolutionary biology is required.

Covers advanced statistical and computational methods for handling complex biological data, including spatial autocorrelation, evolutionary datasets, high-dimensional traits, etc., at scales from molecular to ecological.

Fall

College of Sciences - Department of Biology

BSC 7919 - Doctoral Research

College of Sciences

Biomedical Engineering**BME 5140 - Materials Science of Instrumentation for Clinical Applications****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

General graduate standing in Engineering, Biomedical Science, Biotechnology, Chemistry or related disciplines or C.I. Study of engineering and materials concepts behind the clinical diagnostics currently used and under development, as well as technologies utilized in fabrication and characterization of these devices.

Odd Fall

College of Engineering and Computer Science - Department of Mechanical, Materials, and Aerospace Engineering

BME 5216C - Mechanics of Biostructures I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Graduate standing or C.I.

Part I of a two semester course. Mechanical analysis of hard and soft tissues and prosection lab on human anatomy and physiology.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 5217C - Mechanics of Biostructures II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): 5216C or C.I.

Part II of a two semester course. Cell physiology and engineering principles applied to analysis of cellular processes and prosection anatomy lab on human anatomy and physiology.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 5267 - Biofluid Mechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3701 and EGM 3601 or C.I.

This course will cover the physical and mathematical principals of fluid mechanics and its application and relevance to human physiology and pathology.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 5572 - Biomedical Nanotechnology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3123C with a "C" (2.0) or better grade.

Human Physiology, Bioelectric Phenomena and Neurons, Nanoelectronics for fabrication of biochips for human biomedical applications, self-assembly, bioelectronics, moral and ethical issues.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

BME 5742C - Modeling Techniques and Methodologies in Bioengineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): EGN 3034, PHY 2048C, or C.I.

Model identification and simulation implementation for physiological systems (e.g., cardiovascular, respiratory, neural, and muscular systems)

Odd Fall, Even Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6215 - Advanced Biomechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

BME 5216C or C.I. The objectives of this course are to understand the basic concepts and biomedical applications of medical robotics, human motion mechanics and neuro-mechanics.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6231 - Continuum Biomechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGM 3601.

Material laws for biological tissues, with / without microstructure and/or an incompressibility constraint. Models of damage, growth, remodeling, and electro-mechanical coupling. Introduction to multiscale modeling.

Odd Spring, Even Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6268C - Applied and Computational Biofluids

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): EML 3701, EGM 3601, BME 5267, or C.I.

Principles and foundations of applied fluid mechanics and computational methods to the human circulation.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6500C - Bioinstrumentation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

BME 5587C or C.I An introduction to the fundamental theory and experimental techniques needed for performing bioengineering measurements, designing related experiments, and analyzing experimental results.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6525 - Methods in Neural-Machine Interfaces

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 2048C and EML 4225, or C.I.

Signal processing techniques for interpreting human intention from electromyography (EMG) and Electroencephalography (EEG) signals and human-safe control algorithms will be discussed and practiced.

Odd Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6908 - Independent Study

VAR Credit Hours

Class Hours: 1-99

Lab and Field Work Hours: 0

Contact Hours: 1-99

Graduate standing. Independent study on a topic taken to supplement current coursework.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6918 - Directed Research

VAR Credit Hours

Class Hours: 1-99

Lab and Field Work Hours: 0

Contact Hours: 1-99

Graduate standing. Student research under the direction of a BME faculty member.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6935 - Topics in Biomedical Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EML 3701 and EGM 3601 and graduate standing or C.I. In this course students will explore research topics in biomedical engineering (BME) guided by BME faculty. This team-taught course will involve seminars and presentations of research and case studies by faculty engaged in BME research as well as regional medical professionals.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6938 - ST: Continuum Biomechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGM 3601 and EML 5237.

Material laws for biological tissues, with / without microstructure and/or an incompressibility constraint. Models of damage, growth, remodeling, and electro-mechanical coupling. Introduction to multiscale modeling.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

BME 6971 - Thesis

VAR Credit Hours

Class Hours: 1-99

Lab and Field Work Hours: 0

Contact Hours: 1-99

Graduate standing. Thesis course for students in Biomedical Engineering program.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

Botany

BOT 5285L - Plant Microtechniques

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 2

Prerequisite(s):

BOT 4223C or C.I.

Introduction to techniques used in the preparation of microscope slides/specimens of vascular plants, including infecting organisms.

Even Spring

College of Sciences - Department of Biology

BOT 5505C - Advanced Plant Physiology**4 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): Permission of course instructor.

Core aspects of plant physiology, with a hands-on research-driven focus on traits and processes that govern interaction with the environment.

Even Fall

College of Sciences - Department of Biology

BOT 5917 - Directed Research

College of Sciences

BOT 5937 - Special Topics

College of Sciences

BOT 6623C - Plant Ecology**4 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

The study of the abiotic and biotic processes that control the distribution of terrestrial flora at local, landscape, and global scales.

Material and Supply Fee: \$15.00 *Occasional*

College of Sciences - Department of Biology

BOT 6909 - Research Report

College of Sciences

BOT 6918 - Directed Research

College of Sciences

BOT 6938 - Special Topics

College of Sciences

BOT 6938C - Special Topics

College of Sciences

Business Law

BUL 5332 - Advanced Business Law Topics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate program, or Management major or minor in term of graduation, BUL 3130. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions.

Fall, Spring

College of Business Administration - Kenneth G. Dixon School of Accounting

BUL 5917 - Directed Research

College of Business Administration

BUL 5937 - Special Topics

College of Business Administration

BUL 6444 - Law and Ethics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Accepted for graduate study in College of Business Administration.

Legal and ethical issues inherent in business decision making, including the effects of legislation, regulation, diversity, harassment, and other workplace issues on business activity.

Fall, Spring

College of Business Administration - Kenneth G. Dixon School of Accounting

BUL 6909 - Research Report

College of Business Administration

BUL 6918 - Directed Research

College of Business Administration

BUL 6938 - Special Topics

College of Business Administration

Business Teacher Education

BTE 5917 - Directed Research

College of Community Innovation and Education

BTE 5937 - Special Topics

College of Community Innovation and Education

BTE 6909 - Research Report

College of Community Innovation and Education

BTE 6918 - Directed Research

College of Community Innovation and Education

BTE 6935 - Seminar in Business Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

A survey of current problems, issues, and trends in business education.

Odd Summer, Even Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

BTE 6938 - Special Topics

Chemistry

CHM 5225 - Advanced Organic Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 2211, graduate status or senior standing, or C.I.

Theoretical and physical organic concepts of organic systems from the perspective of modern structural theory, thermodynamics, and kinetics.

Odd Fall

College of Sciences - Department of Chemistry

CHM 5235 - Applied Molecular Spectroscopy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 3120 and CHM 2211, and graduate status or senior standing or C.I.

Determination of chemical structure through interpretation of UV, IR, NMR and Mass Spectra.

Occasional

College of Sciences - Department of Chemistry

CHM 5305 - Bioconjugate Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): BCH 4053 Biochemistry, and graduate status or senior standing or C.I.

Reactivity of biological molecules, synthesis and properties of modified carbohydrates, proteins, lipids and nucleic acids, principles of bioconjugation.

Occasional

College of Sciences - Department of Chemistry

CHM 5450 - Polymer Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 2211, and graduate status or senior standing or C.I.

An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered.

Even Fall

College of Sciences - Department of Chemistry

CHM 5451C - Techniques in Polymer Science

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 5

Contact Hours: 6

Prerequisite(s): CHM 2211 and CHM 3410, graduate status or senior standing, or C.I.

A laboratory and lecture course designed to introduce students to the major polymerization mechanisms along with polymer characterization and processing methods using modern instrumentation.

Material and Supply Fee: \$63.00 *Odd Spring*

College of Sciences - Department of Chemistry

CHM 5580 - Advanced Physical Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): CHM 3411 and PR: MAC 2313, and graduate standing or senior standing or C.I.

Selected topics of thermodynamics, kinetics, quantum mechanics, and structure.

Occasional

College of Sciences - Department of Chemistry

CHM 5675 - Bioinorganic Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): BCH 4053. Corequisite(s): CHM 4610.

Overview of the role of metals in biology. Emphasis on structure-function relationships of metalloenzymes, metalloenzyme mechanism, and spectroscopies and techniques commonly used for these structures.

Odd Spring

College of Sciences - Department of Chemistry

CHM 5917 - Directed Research

College of Sciences

CHM 5937 - ST: Bioinorganic Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): BCH 4053, or C.I.

The role of metals in biology. Emphasis on structure-function relationships of metalloenzymes, metalloenzyme mechanism, and spectroscopies and techniques commonly used for these studies.

Spring

College of Sciences - Department of Chemistry

CHM 6134 - Advanced Instrumental Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 6710.

Advanced instrumental techniques related to luminescence spectroscopy and applications to chemical analysis.

Occasional

College of Sciences - Department of Chemistry

CHM 6440 - Kinetics and Catalysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Must meet proficiency requirement as determined by the Chemistry Department or C.I.

Classical kinetics with an emphasis on industrial applications and current catalysis methodologies.

Spring

College of Sciences - Department of Chemistry

CHM 6492 - Atomic Spectroscopy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 3120 or C.I.

Theory and instrumentation for atomic absorption and emission spectroscopy with focus on their applications in various fields including forensic science.

Even Spring

College of Sciences - Department of Chemistry

CHM 6620 - Solid State Inorganic Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 4610, or C.I.

Structure and chemistry of novel solid-state inorganic materials and their emerging applications.

Occasional

College of Sciences - Department of Chemistry

CHM 6710 - Applied Analytical Chemistry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Must meet proficiency requirement as determined by the Chemistry department or C.I.

Concepts in molecular structure that integrate structural, physical, and chemical properties with aspects of industrial and analytical chemistry.

Fall

College of Sciences - Department of Chemistry

CHM 6711 - Chemistry of Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 2211, CHM 4130C, and CHM 3411, or C.I.

Structure and properties of chemical products, with an emphasis on the correlation between molecular form and the functional properties deemed desirable for the product.

College of Sciences - Department of Chemistry

CHM 6909 - Research Report

College of Sciences

CHM 6918 - Research Report

College of Sciences

CHM 6936 - Graduate Chemistry Seminar

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): C.I.

Students attend faculty-level seminars for multiple semesters dictated by their program. Students will need to complete CITI during first semester.

Fall, Spring

College of Sciences - Department of Chemistry

CHM 6938 - ST: Electrochemistry**3 Credit Hours**

Class Hours: 3

Contact Hours: 3

Prerequisite(s): Bachelor degree in Chemistry or consent of instructor.

Electrochemistry course is design to study the fundamentals of electrochemical reactions with focus on electrode reaction mechanisms. It will include theory/practice of advanced electrochemical-analytical methods.

College of Sciences - Department of Chemistry

CHM 6949 - Cooperative Education in Chemistry

College of Sciences

CHM 6971 - TREATISE (THESIS OR Research Report)

College of Sciences

CHM 7919 - Research

College of Sciences

CHM 7939 - Special Topics

College of Sciences

Chemistry: Specialized**CHS 5110 - Radiochemistry****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 4610 Inorganic Chemistry, or equivalent, or C.I.

Basic principles of radiochemistry and radioanalytical techniques, environmental radiochemistry, radiotracers in

medicine, material science and geology, nuclear fuel, reactors and energy production, radiation protection.

Fall

College of Sciences - Department of Chemistry

CHS 5502 - Principles of Forensic Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Forensic Science MS program or C.I.

Principles of forensic science crime scene investigation, concepts in physical and biological evidence, evidence collection and transport, discrimination and individualization of evidence.

Even Spring

College of Sciences - Department of Chemistry

CHS 5504 - Topics in Forensic Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Digital Forensics M.S. or Computer Forensics graduate certificate or C.I.

History and current topics in Forensic Science.

Fall

College of Sciences - Department of Chemistry

CHS 5507 - Chemometric Applications in Forensic Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHS 5504, or C.I.

Modern methods of evaluating the evidential value of forensic data from physical evidence, including fibers, glass, ignitable liquids and others.

Even Spring

College of Sciences - Department of Chemistry

CHS 5518 - The Forensic Collection and Examination of Digital Evidence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Adv topics in Forensic Science, graduate status, or C.I.

This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures.

Summer

College of Sciences - Department of Chemistry

CHS 5596 - The Forensic Expert in the Courtroom

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into M.S. Forensic Science program, the Digital Forensics M.S. or the Computer Forensics graduate certificate or C.I.

Uses of technically and scientifically trained expert witnesses at trial.

Odd Spring, Even Spring

College of Sciences - Department of Chemistry

CHS 5917 - Directed Research

College of Sciences

CHS 5937 - Special Topics

College of Sciences

CHS 6240 - Chemical Thermodynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Must meet proficiency requirement as determined by the Chemistry department or C.I.

Classical and statistical thermodynamics with emphasis on industrial applications and estimation methods.

Fall

College of Sciences - Department of Chemistry

CHS 6251 - Applied Organic Synthesis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Must meet proficiency requirement as determined by the Chemistry department or C.I.

A survey of chemical syntheses from both a product-oriented standpoint and a process-oriented standpoint. Relevant examples from the pharmaceutical and agricultural chemical industries.

Spring

College of Sciences - Department of Chemistry

CHS 6260 - Chemical Unit Operations and Separations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 3411.

A study of the elements and dynamics that are fundamental to industrial separation methods and transport processes.

Even Fall

College of Sciences - Department of Chemistry

CHS 6509 - Advanced Forensic Microscopy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. In-depth description of microscopic techniques (from stereoscope to PLM to SEM), micro-spectroscopy (from polarization to absorption, emission, vibrational spectroscopy to EDS) and sample analysis.

Odd Spring

College of Sciences - Department of Chemistry

CHS 6513 - Quality Assurance for Forensic Scientists

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into M.S. Forensic Science program or C.I.

Principles and concepts of quality assurance for forensic scientists. Includes a study of national analytical and accreditation standards.

Odd Fall, Even Fall

College of Sciences - Department of Chemistry

CHS 6535 - Forensic Molecular Biology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 4524, graduate standing of C.I.; and must have successfully completed undergraduate courses in statistics and biology

Procedures for recovering and typing DNA from evidentiary materials and the interpretation of data.

Odd Fall

College of Sciences - Department of Chemistry

CHS 6535L - Forensic Analysis of Biological Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHS 6535, PCB 4524, or C.I. and satisfaction of biology requirements.

A laboratory course for forensic molecular biologists covering the procedures for recovering and typing DNA from evidentiary materials.

Even Spring

College of Sciences - Department of Chemistry

CHS 6536 - Population Genetics and Genetic Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I. and must have successfully completed undergraduate courses in statistics and biology.

Analysis of laboratory derived DNA data and how they can be applied in an occupational context.

Even Fall

College of Sciences - Department of Chemistry

CHS 6545 - Forensic Analysis of Explosives

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission into Forensic Science M.S. program or C.I. Modern analytical methods and protocols for the forensic analysis of low and high explosives. Analysis of pure materials and post-blast residues will be covered along with scene search and recovery protocols.

Odd Spring

College of Sciences - Department of Chemistry

CHS 6546 - Forensic Analysis of Ignitable Liquids

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission into Forensic Science M.S. or C.I. Modern analytical methods and protocols for the forensic analysis of ignitable liquids. Ignitable liquid production as relates to ASTM classification, sampling methods, databases and modern methods of data analysis.

Even Spring

College of Sciences - Department of Chemistry

CHS 6613 - Current Topics in Environmental Chemistry**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CHM 2045C, CHM 2046, or the equivalent of a BS in biological, molecular, chemical or engineering sciences, or C.I.

Advanced principles of environmental chemistry, environmental law, current remediation technologies and industrial practices relating to the environment.

Odd Spring

College of Sciences - Department of Chemistry

CHS 6909 - Research Report

College of Sciences

CHS 6918 - Directed Research

College of Sciences

CHS 6938 - Special Topics

College of Sciences

CHS 7919 - Research

College of Sciences

CHS 7938 - Frontiers in Chemistry**1 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to the PhD Chemistry program or C.I.

Chemistry research seminar addressing current challenges, trends and opportunities in the chemical sciences. May be used in the degree program a maximum of 3 times.

Fall, Spring, Summer

College of Sciences - Department of Chemistry

Chinese

CHI 5917 - Directed Research

CHI 5937 - Special Topics

Civil Construction Engineering

CCE 5006 - Infrastructure Systems Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCE 4004 and CCE 4034, or C.I. Essential elements of infrastructure systems and cover concepts, methods, and technologies essential for infrastructure life cycle engineering and management.

Fall, Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 5205 - Decision Support for Infrastructure Projects

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCE 4004 and CCE 4034, or C.I.

Infrastructure decision-making theories, data representation for decision analysis, advanced methods in decision-making, and applications of decision support systems in infrastructure projects.

Fall, Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 5220 - Sustainable Infrastructure Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 3032. Introduce the principles of sustainability as they relate to the built environment and infrastructure systems; sustainability metrics; life cycle assessment; resilience; green building principles.

Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 5917 - Directed Research

College of Engineering and Computer Science

CCE 5937 - Special Topics

College of Engineering and Computer Science

CCE 6036 - Advanced Construction Planning and Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCE 5006 and CCE 5205, or C.I.

Advanced concepts, theories, and applications in planning, estimating, and scheduling. Students will be introduced to dynamic project planning and optimization.

Fall, Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 6045 - Cost Analysis of Sustainable Infrastructure Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCE 5006.

Cost engineering for construction organizations, projects, and operations. Topics include project cash flow analysis, construction cost accounting, evaluating investments, and life cycle cost analysis.

Odd Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 6211 - Design and Monitoring of Construction Processes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCE 5006 and CCE 5205, or C.I.

Concepts of integrated project delivery, improving site layout, advanced operations improvement technologies, improving site security, and green construction.

Fall, Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 6817 - Dynamics of Sustainable Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CCE 5220 or C.I. This course uses dynamic modeling as an experimental platform to study and analyze the dynamics of socio-technical problems in the engineering and construction industry.

Even Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 6918 - Directed Research; Independent Study

VAR Credit Hours

Class Hours: (1-99)

Contact Hours: (1-99)

This is a directed research independent study course.

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 6971 - Thesis

VAR Credit Hours

Contact Hours: 0

This is a thesis course.

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CCE 7980 - Dissertation

VAR Credit Hours

Contact Hours: 0

This is a dissertation course.

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CDA 5917 - Directed Research

College of Engineering and Computer Science

CDA 5937 - Special Topics

College of Engineering and Computer Science

CDA 6909 - Research Report

College of Engineering and Computer Science

CDA 6918 - Directed Research

College of Engineering and Computer Science

CDA 6938 - Special Topics

College of Engineering and Computer Science

CDA 7919 - Research

College of Engineering and Computer Science

CDA 7939 - Special Topics

College of Engineering and Computer Science

CEG 5917 - Directed Research

College of Engineering and Computer Science

CEG 5937 - Special Topics

College of Engineering and Computer Science

CEG 6909 - Research Report

College of Engineering and Computer Science

CEG 6918 - Directed Research

College of Engineering and Computer Science

CEG 6938 - Special Topics

College of Engineering and Computer Science

CEN 5917 - Directed Research

College of Engineering and Computer Science

CEN 5937 - Special Topics

College of Engineering and Computer Science

CEN 6909 - Research Report

College of Engineering and Computer Science

CEN 6918 - Directed Research

College of Engineering and Computer Science

CEN 6938 - Special Topics

College of Engineering and Computer Science

CES 5917 - Directed Research

College of Engineering and Computer Science

CES 5937 - Special Topics

College of Engineering and Computer Science

CES 6909 - Research Report

College of Engineering and Computer Science

CES 6918 - Directed Research

College of Engineering and Computer Science

CES 6938 - Special Topics

College of Engineering and Computer Science

CES 7919 - Research

College of Engineering and Computer Science

CES 7939 - Special Topics

College of Engineering and Computer Science

CGN 5917 - Directed Research

College of Engineering and Computer Science

CGN 5937 - Special Topics

College of Engineering and Computer Science

CGN 6909 - Research Report

College of Engineering and Computer Science

CGN 6918 - Directed Research

College of Engineering and Computer Science

CGN 6938 - Special Topics

College of Engineering and Computer Science

CGN 7919 - Doctoral Research

College of Engineering and Computer Science

CGN 7980 - Dissertation

College of Engineering and Computer Science

CGS 5917 - Directed Research

College of Engineering and Computer Science

CGS 5937 - Special Topics

College of Engineering and Computer Science

CGS 5949 - Cooperative Education in Computer General

College of Engineering and Computer Science

CGS 6909 - Research Report

College of Engineering and Computer Science

CGS 6918 - Directed Research

College of Engineering and Computer Science

CGS 6938 - Special Topics

College of Engineering and Computer Science

CGS 6949 - Cooperative Education in Computer General

College of Engineering and Computer Science

Civil Engineering

CEG 6515 - Retaining Structures and Slope Stability

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CEG 4011C and CEG 4012 or C.I.

Earth pressures, retaining structures, design of retaining walls, sheet piles, mechanically stabilized earth, soil nails, anchored and braced excavations. Slope stability, shear strength, limit equilibrium.

Even Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 5340 - Internet of Things: Applications in Smart Cities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGN 3405 or C.I.

Internet of Things (IoT), urban sensing ecosystem, technological tools and methods, smart city infrastructure, IoT applications for smart cities, challenges and case studies.

Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 5341 - Interdisciplinary Introduction to Smart Cities' Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE3810 and ENV 3001 with a grade of "C" (2.0) or better or C.I.

This course provides a broad multidisciplinary background about the different systems and technologies used in Smart Cities.

Fall, Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 5506 - Advanced Pavement and Civil Engineering Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CGN 3501C, CEG 4011C. Pavement and civil engineering materials such as aggregate, Portland cement, and concrete. In addition, mechanics, modeling, analysis, and design of those materials will be included.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 5617 - Infrastructure Systems Optimization and Identification

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032, CGN 3405, Basic programming skills, or C.I.

This course covers the advanced mathematical programming techniques that are useful for civil infrastructure planning, operations, and maintenance with increasing infrastructure connectivity and data availability.

Even Fall, Even Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 5877 - Monitoring for Infrastructure Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): One of the following; CES 4100C, ENV 4120, ENV 4561, CWR 4203C, CWR 4101C or CCE 4004. Applications of modern instrumentation and data processing technologies to infrastructure monitoring and assessment. Topics in current and state-of-the-art monitoring techniques, SHM for infrastructure systems, and case studies on performance-based evaluation.

Odd Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 6342 - Modeling Human Behavior with Emerging Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Parsing and visualizing trajectory data, probabilistic graphical models, hidden Markov models, human mobility models, transportation network analysis, traffic state prediction, data-driven traffic assignment.

Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 6343 - Cyber-Physical Systems and Smart Cities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGN 5555 or C.I.

Introduction to cyber-physical systems, smart cities as large-scale CPS, modeling and control of networked interconnected agents, mean field games, applications and case studies.

Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 6655 - Regional Planning, Design, and Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Project course dealing with planning, design, and development of regional systems, including projections, case studies, design alternatives, environmental impact, etc.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CGN 6938 - Mobility in Smart Cities: Technologies and Application Areas

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE3810 with grade of "C" (2.0) or better or CI.

The course introduces students to research developments in intelligent transportation systems infrastructure with a focus on video-based data collection and networks connectivity.

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 5935 - Water First Seminar Series

0 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 0

Contact Hours: 0

This course will expose students to state-of-the-art interdisciplinary water and environmental research as well as real world applications. It will provide networking opportunities with potential collaborators and prospective employers at other academic institutions, industry partners, or government agencies. PhD students supervised by faculty in the water resources or environmental engineering groups will be encouraged to actively participate by presenting their thesis and dissertation research in the seminar series.

Fall, Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

Civil Engineering Structures

CES 5144 - Matrix Methods for Structural Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CES 4100C or C.I.

Implementation of the matrix methods for structural analysis that are commonly and currently used in practice and in research, special topics such as finite element formulations, special analysis procedures, and use of software packages.

Even Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 5325 - Bridge Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CES 4605 and CES 4702 or C.I.

Bridge engineering fundamentals, design philosophies, analysis and design concepts for concrete and steel bridges, AASHTO specifications, Bridge rating, and introduction to Bridge health monitoring.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 5606 - Advanced Steel Structures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CES 4605.

Behavior and design of steel buildings; emphasis on AISC-LRFD building code; complex connections, tension members, stability of compression members, laterally unsupported beams, frames, and beam columns.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 5706 - Advanced Reinforced Concrete

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CES 4702 or C.I.

Design of frames, two-way floor systems, shear walls; shear and torsion; compression field theory; inelastic analysis; wind and seismic design; introduction to prestressed concrete.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 5821 - Masonry and Timber Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Structural properties of masonry and timber; design loads-codes and standards; analysis for axial loads, flexure and shear.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6010 - Structural Reliability

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 and CES 4100C or equivalent course or C.I.

Application of probability theory to classical and computational reliability methods for civil systems. Topics in component and system reliability, simulation, bounds, sensitivity, and model updating.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6116 - Finite Element Structural Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CES 5144 or C.I.

Concept, theory, and application of the finite element method; analysis of one-, two-, and three-dimensional structural components and systems; stability and dynamics; applications.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6170 - Boundary Element Methods in Civil Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Green's theorems; integral formulations for two- and three-dimensional and axisymmetric problems of solid mechanics; applications to structural and geomechanics problems; programming.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6209 - Dynamics of Structures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Response analysis of single and multi-degree-of-freedom systems to periodic and non-periodic excitations; continuous systems; response spectra; applications in structural engineering.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6220 - Wind and Earthquake Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CES 6209 or C.I.

Wind characteristics; wind effects on structures; dynamic analysis for wind loads; nature of earthquake forces; response spectra and seismic design; wind and seismic codes.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6230 - Advanced Structural Mechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Review of biaxial bending and torsion; plate bending; theory of elasticity, visco-elasticity and plasticity; anisotropic elasticity and stability.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6527 - Nonlinear Structural Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CES 5144 or C.I.

Structural nonlinear analysis theory and applications, including material and geometric nonlinearity, numerical methods and solution strategies, inelastic element formulation, and use of software packages.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6715 - Prestressed Concrete Structures**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CES 4702 and CES 5706 or C.I. Prestressed concrete behavior and design; applications in building and bridge design including pre- and post-tensioned girders, floors, roofs, and walls.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CES 6876 - Smart City Built Infrastructure**3 Credit Hours**

Prerequisite(s): CES4100 with a grade of "C" (2.0) or better or C.I.

Introduction to concepts, methods and technologies related to design, assessment, analysis, monitoring and non-destructive evaluation methods with specific applications for smart city built infrastructure.

Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

Civil Geotechnical Engineering**CEG 5405 - Seepage in Soils****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CEG 4011C.

Principles of flow through soils; flow nets, analytical solutions; seepage forces, design of filters and drainage layers; dewatering, drainage in dams, embankments, and pavement systems.

Even Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CEG 6065 - Soil Dynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CEG 4011C.

Comprehensive coverage in calculating the dynamic response of foundations, presenting a variety of contemporary techniques for fields and laboratory.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CEG 6115 - Foundation Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CEG 4012 or C.I.

Analysis and design of spread footings, mat foundations, retaining walls, sheeting and bracing systems and pile foundations.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CEG 6317 - Advanced Geotechnical Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CEG 4012 or C.I.

Mechanics of soils and models; elasticity and plasticity of soil bodies; strength of soils and stability of soil structures.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CEG 6610 - Smart Underground Structures: Tunnels and Shafts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CEG 4011C and CEG 4012 or C.I.

Analysis, design, construction of tunnels. Smart underground space. Field instrumentation. Stresses openings. Tunnel design. Case histories. Construction methods. Sustainability urban environments. Future Florida underground space.

Odd Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CEG 7980 - Dissertation

1-99 Credit Hours

Class Hours: 1-99

Lab and Field Work Hours: 0

Contact Hours: 1-99

May be repeated for credit.

Fall, Spring, Summer

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

Civil Water Resources

CWR 5125 - Groundwater Hydrology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4124C or C.I.

Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 5205 - Hydraulic Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4202C or C.I.

Concepts of fluid mechanics and hydrodynamics applied to natural and man-made flow of intent to civil and environmental engineering.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 5515 - Numerical Methods in Civil and Environmental Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4202C or C.I.

This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 5545 - Water Resources Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4120 or C.I.

Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 5634 - Water Resources in a Changing Environment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4120.

To model and understand potential impact of climate change and human activities on hydriodic systems and various spatial and temporal scales.

Odd Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 5917 - Directed Research

College of Engineering and Computer Science

CWR 5937 - Special Topics

College of Engineering and Computer Science

CWR 5999 - Coastal Systems Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4120, CWR 4633C, GLY 4730 (Mar. Geol.), OCE 3008, or C.I

Coastal features; drivers of coastal flooding; climate variability and change; numerical and statistical modeling of extremes; coastal flood risk, management and adaptation.

Even Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6007 - Ecohydraulics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CWR 5634 OR Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology or C.I. Sustainable and multi-objective management of rivers, shorelines and aquatic resources, this course investigates fundamental linkages between physical processes and ecological responses in engineered and natural systems.

Even Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6102 - Advanced Hydrology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4120C or C.I.

Single site and regional frequency analysis; modeling hydrologic systems; lumped and distributed event models for urban and natural drainage basins; continuous simulation; real-time forecasting.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6126 - Groundwater Modeling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 5125.

Review of contemporary computer-based groundwater flow models and their application to environmental engineering problems.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6235 - Open Channel Hydraulics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4202C or C.I.

Free surface flow studies by empirical and theoretical methods for the design, operation, and management of open channels.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6236 - River Engineering and Sediment Transport**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4633C or C.I.

River morphology and regime with stabilization and modification of river courses. Sediment transport including control methods and modeling.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6535 - Modeling Water Resources Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4120 or C.I.

Contemporary mathematical models for water quality and quantity considerations including computer-based hydraulic and hydrologic models.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6539 - Finite Elements in Surface Water Modeling**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 5515 or C.I.

This course explores finite element techniques as applied to surface water modeling, introduces theory and applications, and develops means by which errors can be appraised.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6606 - Stochastic River Network Hydro-Geomorphology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CWR 5125, CWR 5205, CWR 5545, CWR 5634 or C.I. Review of Probability and Statistics, Fourier and Wavelet Analysis, Fractal Characteristics of River basins, Self-organization, Modeling River Basins, River Basin response to Climatic and Anthropogenic Changes.

Odd Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6660 - Water Policy, Planning and Governance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CWR 4633C or C.I.

This course deals with political, social, economic and administrative systems that affect the use, development, planning, and management of water resources at different levels.

Even Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

CWR 6909 - Research Report

College of Engineering and Computer Science

CWR 6918 - Directed Research

College of Engineering and Computer Science

CWR 6938 - Special Topics

College of Engineering and Computer Science

CWR 7919 - Doctoral Research

College of Engineering and Computer Science

Classical and Ancient Studies

CLA 5917 - Directed Research

CLA 5937 - Special Topics

Clinical Psychology

CLP 5166 - Advanced Abnormal Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Consideration of classification, causation, management and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory.

Occasional

College of Sciences - Department of Psychology

CLP 5917 - Directed Research

College of Sciences

CLP 5937 - Special Topics

College of Sciences

CLP 6181 - Psychological Theories of Substance Abuse Treatment

3 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Acceptance to the Clinical Psychology Master's or PhD programs or C.I.

Focuses on the mechanisms responsible for, and the treatment of, substance tolerance and dependence.

Odd Fall, Even Fall

College of Sciences - Department of Psychology

CLP 6191 - Multicultural Psychotherapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

The theories, issues, and techniques of counseling within a multicultural environment.

Occasional

College of Sciences - Department of Psychology

CLP 6195C - Introduction to Psychotherapy

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Graduate admission and C.I.

Counseling theory with experimental lab component including practice in specific techniques in counseling.

Material and Supply Fee: \$10.00 *Odd Spring*

College of Sciences - Department of Psychology

CLP 6321 - Psychotherapy in Community Settings

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance to Clinical Psychology PhD program or C.I.

Survey of the community agencies that deliver mental health/counseling services. Includes on-site visits to local agencies. This course is intended for the PhD in Clinical Psychology; in certain instances graduate students in other programs may enroll.

Occasional

College of Sciences - Department of Psychology

CLP 6441C - Individual Psychological Assessment I

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Graduate admission and C.I.

Theory and techniques of psychological assessment with emphasis on intake interviewing, cognitive and personality assessment, and report writing.

Material and Supply Fee: \$20.00 *Fall*

College of Sciences - Department of Psychology

CLP 6449C - Career and Lifestyle Assessment

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): CLP 6441C or C.I.

Application and theory of obtaining, integrating, and utilizing career, vocational, and lifestyle assessment in clinical settings such as rehabilitation centers, mental health centers, and hospitals.

Material and Supply Fee: \$15.00 *Spring*

College of Sciences - Department of Psychology

CLP 6457C - Group Psychotherapy

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Graduate admission and C.I.

Group counseling: theory and practice. Experiential group laboratory.

Occasional

College of Sciences - Department of Psychology

CLP 6459C - Human Sexuality, Marriage, and Sex Therapies

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Graduate admission, and C.I.

Human sexuality, theory and practice of specific techniques of marriage and sex therapy.

Occasional

College of Sciences - Department of Psychology

CLP 6460C - Introduction to Child, Adolescent, and Family Therapies

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Graduate admission, and C.I.

Theories and practices of child, adolescent and family therapies. Includes practice in specific techniques.

Occasional

College of Sciences - Department of Psychology

CLP 6461 - Cognitive-Behavioral Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Must be enrolled in the Clinical Psychology PhD Program.

Covers theory, outcomes, and methods of cognitive-behavioral therapy. Includes discussion of variations of CBT, as targeted to particular psychiatric disorders.

College of Sciences - Department of Psychology

CLP 6527c - Measurement, Research Design, and Statistical Analysis in Clinical Psychology I

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Corequisite(s): Admission into the Master's in Clinical Psychology Thesis Track or instructor permission.

This course provides an overview of approaches to research design, statistical analysis, and measurement in the field of clinical psychology.

Fall

College of Sciences - Department of Psychology

CLP 6528C - Measurement, Research Design, and Statistical Analysis in Clinical Psychology II

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to the Master's in Clinical Psychology, Research/Thesis Track, CLP6527c, or instructor permission.

This course is a continuation of CLP 6527C, and CLP 6528C is a prerequisite. Additional topics are covered in the areas of research design, statistical analysis, and measurement in the field of clinical psychology.

Fall

College of Sciences - Department of Psychology

CLP 6909 - Research Report

College of Sciences

CLP 6918 - Directed Research

College of Sciences

CLP 6932 - Ethical and Professional Issues in Mental Health Practices

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate admission, C.I.

Examination of codes of ethics, laws, and professional standards in the mental health field.

Occasional

College of Sciences - Department of Psychology

CLP 6938 - Special Topics

College of Sciences

CLP 6949 - Predoctoral Internship

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 40

Contact Hours: 40

Prerequisite(s): Acceptance to Clinical Psychology Ph.D. program or C.I.

Placement in an approved setting on a full-time basis for one calendar year. Required of all clinical Ph.D. students. This course is intended for the Ph.D. in Clinical Psychology, in certain instances graduate students in other programs may enroll.

Fall, Spring, Summer

College of Sciences - Department of Psychology

CLP 7125 - Lifespan Psychopathology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology PhD or C.I.

Clinical presentation and etiological theories of psychological disorders across the lifespan.

Every Semester

College of Sciences - Department of Psychology

CLP 7136 - Child Psychopathology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology PhD or C.I.

Clinical presentation and etiological theories of psychological disorders in children and adolescents.

Fall

College of Sciences - Department of Psychology

CLP 7145C - Introduction to Clinical Psychology and Psychotherapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to the Clinical Psychology Ph.D. program or C.I.

A historical look at clinical psychology, psychotherapy, and clinical research. May be used in the degree program a maximum of 2 times only when course content is different.

Fall, Spring

College of Sciences - Department of Psychology

CLP 7378 - Proseminar in Professional Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology PhD or C.I.

Survey of psychologists' roles in administration, supervision, and treatment development.

Odd Spring

College of Sciences - Department of Psychology

CLP 7429 - Clinical Neuropsychological Assessment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology Ph.D. program or C.I.

Provides foundational knowledge in clinical neuropsychological assessment, with a focus on assessment of adult clinical patients by doctoral-level clinical psychologists.

Occasional

College of Sciences - Department of Psychology

CLP 7446C - Child Psychological Assessment

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to Psychology Ph.D. Clinical track or C.I.

Emphasis is placed on theories and techniques of psychological assessment with children and adolescents. Primary emphasis on interviewing, observation skills, and administering intelligence tests.

Spring

College of Sciences - Department of Psychology

CLP 7447C - Clinical Psychological Assessment

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to Psychology PhD Clinical track or C.I.

Theory and techniques of adult psychological assessment with emphasis on intake interviewing, cognitive and personality assessment, and report writing.

Every Semester

College of Sciences - Department of Psychology

CLP 7474 - Child Empirically Supported Treatments

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology PhD or C.I.

Empirically supported psychological and pharmacological treatments for children and adolescents.

Odd Spring

College of Sciences - Department of Psychology

CLP 7494 - Empirically Supported Psychotherapies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology PhD or C.I.

Empirically supported psychological and pharmacological treatment across the lifespan.

Every Semester

College of Sciences - Department of Psychology

CLP 7623 - Ethical and Professional Issues in Clinical Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology PhD or C.I.

APA Code of Ethics, relevant laws, and professional standards in clinical psychology.

Fall

College of Sciences - Department of Psychology

CLP 7919 - Research

College of Sciences

CLP 7939 - Affective Neuroscience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Advanced recent knowledge on the topic of affective neuroscience. We will review and discuss recent scientific journal articles across a range of subtopics related to the neuroscience of emotion. We will include both healthy and disordered functioning of the neural and hormonal systems that relate to a wide range of emotions.

College of Sciences - Department of Psychology

CLP 7942L - Supervision Practicum

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology Ph.D. program or C.I.

Advanced practicum focused on learning in didactic and experiential effective clinical supervision. Graded S/U. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Sciences - Department of Psychology

CLP 7943C - Clinical Practicum

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Acceptance to Clinical Psychology Ph.D. program or C.I.

Clinical activities performed in an approved university or community setting under faculty/staff supervision. This course is intended for the Ph.D. in Clinical Psychology, in certain instances graduate students in other programs may enroll.

Material and Supply Fee: \$15.00 *Fall, Spring, Summer*

College of Sciences - Department of Psychology

Communication

COM 5312 - Introduction of Communication Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Provides the foundational knowledge and skills for conducting research in graduate Communication coursework including both quantitative and qualitative approaches.

Fall, Spring, Summer

Nicholson School of Communication and Media - Department of Communication

COM 5917 - Directed Research

Nicholson School of Communication and Media

COM 5932 - Topics in Communication Theory and Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Communication M.A. program or C.I. In-depth examination of a particular area of communication theory and research, emphasizing major developments, current uses, implications for research, and overall impact on the field.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 5937 - Special Topics

Nicholson School of Communication and Media

COM 6008 - Proseminar in Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Communication M.A. program or C.I.

Introduction to the field of communication at the graduate level emphasizing skills and practices needed to succeed at the graduate level and as a professional in the field.

Fall, Spring

Nicholson School of Communication and Media - Department of Communication

COM 6046 - Interpersonal Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status.

Survey of theoretical perspectives in interpersonal communication.

Spring

Nicholson School of Communication and Media - Department of Communication

COM 6047 - Interpersonal Support in the Workplace

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Interpersonal theories relevant to understanding marginalization and building supportive relationships in the workplace.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6048 - Communication in Close Relationships

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Classic and contemporary theory of communication in close relationships.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6121 - Communication Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Analysis and development with reference to particular media. Organizational theory, structure, and behavior.

Management principles and operations.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6145 - Organizational Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Organizational communication theory, perspectives, methods and current issues that reflect the centrality of communication processes in constituting organizing and organizations.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6303 - Qualitative Research Methods in Communication**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Communication M.A. or C.I.

Examination of qualitative methods in communication with emphasis on interviewing, ethnography, focus groups, observational methods and data interpretation.

Fall, Spring

Nicholson School of Communication and Media - Department of Communication

COM 6304 - Quantitative Research Methods in Communication**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Communication M.A. program or C.I.

Examination of quantitative methods in communication. Topics include experimental research design, sampling procedures, survey design, content analysis, and introduction to data analysis.

Fall, Spring, Summer

Nicholson School of Communication and Media - Department of Communication

COM 6401 - Communication Theory**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Graduate standing or C.I.

Examination and critical analysis of the major theories of communication processes as well as their underlying metatheoretical foundations.

Spring

Nicholson School of Communication and Media - Department of Communication

COM 6425 - Symbolism in Terrorism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Communication M.A. program or C.I.

Skills for, and approaches to, analyzing communication strategies used by terrorists in pursuing; their long-term objectives and goals.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6463 - Studies in Intercultural Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Comprehensive survey of methodological and theoretical issues and concepts in intercultural and cross-cultural research.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6466 - Persuasion in the Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The underlying persuasive messages about cultural norms and values that are communicated through mass media channels such as movies, music, etc.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6467 - Studies in Persuasion

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status.

Analysis of research and major theoretical perspectives in persuasive communication.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6468 - Communication and Conflict

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Research seminar in the study of communication and conflict.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6525 - Communication Strategy and Planning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Focus on the creation of communication strategies in conjunction with overall organizational goals, with emphasis on decision making and management.

Occasional

College of Sciences - Nicholson School of Communication and Media

COM 6535 - Communication Campaigns

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Communication M.A. program or Strategic Communication Ph.D. program or C.I.

This seminar examines the strategies and effects of public communication campaigns with a focus on foundational theory and empirical research.

Occasional

Nicholson School of Communication and Media - Department of Communication

COM 6909 - Research Report

Nicholson School of Communication and Media

COM 6918 - Directed Research

Nicholson School of Communication and Media

COM 6938 - Special Topics

Nicholson School of Communication and Media

COM 6949 - Cooperative Education in Communications

Nicholson School of Communication and Media

COM 7025 - Health Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. or C.I.

Examines issues of healthcare provider-patient communication, health literacy, public health, health in other cultures, ethics in health communication, and mass media health messages.

Fall

Nicholson School of Communication and Media - Department of Communication

COM 7227 - Seminar in Health Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COM 7025, admission to Strategic Communication Ph.D. program, or C.I.

A seminar-format advanced course designed to explore in depth a specific area of focus in health communication.

Spring

Nicholson School of Communication and Media - Department of Communication

COM 7236 - Seminar in Risk and Crisis Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COM 7815, admission to Strategic Communication Ph.D. program, or C.I.

An advanced course designed to explore in depth a specific area of focus in risk and crisis communication selected by the instructor.

Spring

Nicholson School of Communication and Media - Department of Communication

COM 7325 - Seminar in Research Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

In-depth examination of a particular quantitative or qualitative research method in communication with a focus on producing a publishable study.

Spring

Nicholson School of Communication and Media - Department of Communication

COM 7464 - Theory Building for Strategic Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

Required for communication doctoral students and is designed for all graduate students who have an interest in paradigmatic issues related to communication theory construction.

Spring

Nicholson School of Communication and Media - Department of Communication

COM 7528 - Communication and Community Engagement

VAR Credit Hours

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

Project based on a partnership with a community organization.

Fall

Nicholson School of Communication and Media - Department of Communication

COM 7529 - Strategic Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

A survey of theories, principles, and processes of strategic communication in diverse contexts including advertising, public relations, health, crisis, instruction, persuasion, journalism, and organizational communication.

Fall

Nicholson School of Communication and Media - Department of Communication

COM 7745 - Current Issues in Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

In-depth examination of a particular area of communication theory and research, emphasizing major developments, current uses, implications for research, and overall impact on the field.

Spring, Fall

Nicholson School of Communication and Media - Department of Communication

COM 7815 - Risk Communication**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

A message-centered approach to the study of risk communication. The course establishes risk communication as a distinct sub-discipline within the communication discipline.

Fall

Nicholson School of Communication and Media - Department of Communication

COM 7821 - Instructional Communication in Strategic Contexts**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

Instructional communication examines communication that occurs when instructing others. This course will include strategic instructional communication theories, research and best practices.

Fall

Nicholson School of Communication and Media - Department of Communication

COM 7920 - Doctoral Colloquium**0 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 0

Contact Hours: 0

Prerequisite(s): Admission to Strategic Communication Ph.D. program of C.I.

Focuses on progression through the NSCM Ph.D. degree program, the research process, guidance on the academic profession, and written and oral presentation of scholarly research.

Fall

Nicholson School of Communication and Media - Department of Communication

MMC 6567 - New Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Communication M.A. program or Strategic Communication Ph.D. program or C.I.

A study of the development and convergence of new technologies and their mediation.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

SPC 7685 - Rhetorical Criticism of Strategic Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Strategic Communication Ph.D. program or C.I.

Process of rhetorical criticism of strategic communication, employing theory and practice to understand critical approaches to health and risk/crisis communication messages.

Fall

Nicholson School of Communication and Media - Department of Communication

Community Psychology

CYP 5917 - Directed Research

College of Sciences

CYP 5937 - Special Topics

College of Sciences

CYP 6909 - Research Report

College of Sciences

CYP 6918 - Directed Research

College of Sciences

CYP 6938 - Special Topics

College of Sciences

CYP 6942 - Practicum in Psychological Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Clinical Psychology MA and CLP 6195C and CLP 6441C, or C.I. Training in psychotherapy skills in a community setting under faculty supervision.

Spring

College of Sciences - Department of Psychology

CYP 6948C - Psychology Internship

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Clinical psychology MA students.

Supervised placement in community setting for 10-30 hours per week. Graded S/U. May be repeated for credit.

Occasional

College of Sciences - Department of Psychology

Comparative Politics

CPO 5917 - Directed Research

College of Sciences

CPO 5937 - Special Topics

College of Sciences

CPO 6038 - Political Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to graduate degree-seeking program, or C.I. Analyze the political determinants of economic development and the economic causes of political outcomes such as democratization.

Occasional

College of Sciences - School of Politics, Security and International Affairs

CPO 6056 - Politics of Authoritarian Regimes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Introduction to the politics of authoritarian regimes. Review of academic work on how autocrats stay in power and the characteristics of political contention in authoritarian states.

Occasional

College of Sciences - School of Politics, Security, and International Affairs

CPO 6058 - Revolution and Political Violence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Studies or C.I.

Seminar addresses theory and analytical models of political revolutions and insurgencies with cases, especially Third World.

Occasional

College of Sciences - School of Politics, Security and International Affairs

CPO 6091 - Seminar in Comparative Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Introduction to the theory and methodology of comparative politics, institutions, and contextual factors of selected political systems such as Canada, European, and Third World nations.

Even Spring

College of Sciences - School of Politics, Security and International Affairs

CPO 6206 - Comparative Politics of Africa

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate degree-seeking program or C.I.

Explores the conceptual, theoretical, methodological issues in the study of African political systems.

Occasional'

College of Sciences - School of Politics, Security, and International Affairs

CPO 6307 - Issues in Latin American Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Examines and evaluates major issues in Latin American politics employing political science theories and methodologies.

Occasional

College of Sciences - School of Politics, Security and International Affairs

CPO 6407 - Comparative Politics of the Middle East

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or consent of the instructor.

A study of issues in Middle Eastern politics as studied in comparative politics including political regimes, political economy, political violence, environmental politics, and gender politics.

Occasional

College of Sciences - School of Politics, Security and International Affairs

CPO 6446 - Comparative Political Parties

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Theories of the formation, structure, organization, and behavior of political parties as well as theories of political party systems.

Occasional

College of Sciences - School of Politics, Security and International Affairs

CPO 6729 - Global Security in the Age of Migration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Explore migration as the outcome and cause of security concerns, while introducing students to theories of migration, conflict, security, and border control policies.

Occasional

College of Sciences - School of Politics, Security and International Affairs

CPO 6776 - Comparative Rising Powers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate degree-seeking program or C.I.

The course examines key contemporary rising powers in Eurasia: China, India, and Russia. It focuses on a comparative analysis of the nature of their rise.

Occasional

College of Sciences - School of Politics, Security and International Affairs

CPO 6909 - Research Report

College of Sciences

CPO 6918 - Directed Research

College of Sciences

CPO 6938 - Special Topics

College of Sciences

CPO 6938 - Special Topics in Comparative Politics: Politics of Authoritarian Regimes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Introduction to the politics of authoritarian regimes. Review of academic work on how autocrats stay in power and the characteristics of political contention in authoritarian states.

Fall

College of Sciences - School of Politics, Security and International Affairs

Comparative Psychology and Animal Behavior

CBH 5917 - Directed Research

College of Sciences

CBH 5937 - Special Topics

College of Sciences

Computer Applications for Computer Scientists

CAP 5055 - AI for Game Programming

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CS Foundation Exam or EEL 4851C or C.I.

Surveys cutting-edge AI techniques for video games and board games and contrasts them with more traditional approaches.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 5100 - Human-Computer Interface Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4331C, graduate standing and/or approval of the Director of the Software Engineering Certificate Program.

Focuses on dynamics of human-computer interaction. Provides a comprehensive overview of HCI design as a software discipline. Features a user-centered approach to Web-based application design.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 5115 - Virtual Reality Engineering

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): MAS 3105 or C.I.

Virtual reality, scene graphs and computer graphics, development of travel, selection, manipulation, system control, animation-based, and physics-based interaction techniques, implementation of 360° videos.

Odd Fall, Even Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 5150 - Foundations of Computer Security and Privacy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Students are expected to have knowledge equivalent to a BS in Computer Science. The course provides students with fundamental knowledge in computer security and privacy.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 5151 - Internet of Things Security and Privacy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5200.

This class introduces full-stack IoT security and privacy issues, including hardware, software, network, and data.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 5415 - Computer Vision

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 3503C, MAC 2312 and COT 3960.

Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 5510 - Bioinformatics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Background in programming language or molecular biology.

This course introduces problems, concepts, algorithms, and applications in Bioinformatics. It covers essential topics such as sequence alignment and prediction of gene and protein structure.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 5512 - Evolutionary Computation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 4630 or COP 3503C or C.I.

This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms.
Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 5516 - Medical Image Computing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAS 3105 and COP 4020 or COT 4210.

This course provides students with the foundation necessary for understanding, visualizing, and quantifying medical images with computational methods.
Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 5610 - Machine Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 4630 or C.I.

Origin/evaluation of machine intelligence; machine learning concepts and their applications in problem solving, planning and "expert systems" symbolic role of human and computers.
Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 5619 - Artificial Intelligence for FinTech

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5840.

Fundamentals of machine learning; deep learning; reinforcement learning; applications to customer service automation, personalization, biometrics, process automation, and fraud prevention.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 5636 - Advanced Artificial Intelligence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 4630.

AI theory of knowledge representation, "expert systems", memory organization, problem solving, learning, planning, vision, and natural language.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 5725 - Computer Graphics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 5738 - Visualization Techniques for Data Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP 3330, COP 3502C. Techniques for visualization that are useful for analyzing and presenting quantitative information are covered. Projects analyze one or more real-world publicly-available datasets. Understanding the data, visualizing it, creating hypotheses, and visually exploring them. Application of statistical techniques to test hypotheses about data trends and visualize how well their hypotheses match with their analysis.

Fall, Spring, Summer

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

CAP 5917 - Directed Research

College of Engineering and Computer Science

CAP 5937 - ST: Mixed Reality - Virtual Reality

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 2

Virtual reality, scene graphs, immersion, presence, VR sickness, interaction techniques, audio, haptics, system control, perception, interaction principles, physics, scenario fidelity, animations, virtual agents, 360° videos.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6105 - Pen-Based User Interfaces

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5610 or C.I.

Designed to give students a thorough understanding of the techniques, algorithms, and evaluation methodologies used in designing and developing pen-, sketch-, and gesture-based user interfaces.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 6110 - Augmented Reality Engineering

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): CAP 5115.

Augmented reality, tracking, situated visualization, simultaneous localization and mapping, AR interactions, calibration, registration, occlusion, photometric registration, common illumination, diminished reality, viewpoint guidance, multiple perspectives, collaboration.

Odd Spring, Even Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6117 - Mixed Reality Project

3 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): CAP 6110.

Mixed reality, project management, reporting, prototyping, gesture and voice recognition, design walkthroughs, sound design, 3D scanning, character generation, motion capture, UX inspections, tutorials, help, documentation.

Odd Fall, Even Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 6121 - 3D User Interfaces for Games and Virtual Reality

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5725 or C.I.

Introduction to the design, implementation, and evaluation of the fundamental techniques in spatial 3D interaction.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6133 - Advanced Topics in Computer Security and Computer Forensics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP 5611, COT 5405, CNT 5008. Advanced topics in computer security and forensics such as cryptography; automatic intrusion detection, advanced pattern matching, statistical techniques, firewalls, and vulnerability scanning.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6135 - Malware and Software Vulnerability Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Digital Forensics MS major or CDA 5106 or COT 5405.

Analyzes computer malicious codes, such as virus, worm, trojan, spyware, and software vulnerabilities, such as buffer-overflow.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6307 - Text Mining I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP 3330, CAP 4630; or C.I. Extracting knowledge from unstructured text collections. Document indexing, similarity

and summarization, clustering, classification, named entity recognition and relation extraction, text stream processing. Several programming assignments.

Occasional

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

CAP 6315 - Social Media and Network Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5316.

Techniques developed by the computer science research community for analyzing social networks and social media datasets.

Summer

College of Engineering and Computer Science - Department of Computer Science

CAP 6318 - Computational Analysis of Social Complexity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CAP 5316. Computational concepts, principles, modeling and simulation approaches used to analyze complex social and economic phenomena, leveraging the availability of large amounts of data, and elements of complexity theory.

Odd Spring

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

CAP 6411 - Computer Vision Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5415.

Recent systems contributing toward recognition, reasoning, knowledge representation, navigation, and dynamic scene analysis. Comparisons, enhancements, and integrations of such systems.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6412 - Advanced Computer Vision

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5415.

Computational theories of perception, shape from IX techniques, multi-resolution image analysis, 3-D model based vision, perceptual organization, spatiotemporal model, knowledge-based vision systems.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6419 - 3D Computer Vision

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5415 or EEL 5820 or C.I.

2D/3D Projective Geometry, Projective Transformation Estimation, Camera Calibration, Single View Modeling, Bi-focal Modeling, Fundamental Matrix, Stratified Structure, Homography, Tri-focal Tensor, Auto-Calibration, Cheirality.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6515 - Algorithms in Computational Biology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5405 or CAP 5510.

This course will concentrate on algorithmic problems in computational biology.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 6517 - Computational Genomics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5510.

This course will summarize computational techniques for comparing and analyzing genomics; (DNA) sequences.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6545 - Machine Learning Methods for Biomedical Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5510 or C.I.

Summarize computational techniques for bridging two fields: machine learning and biomedical science to illustrate successful data mining and knowledge discovery in an interdisciplinary context.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6614 - Current Topics in Machine Learning**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5610 or C.I.

Machine learning, the study of algorithms that allow computer programs to learn from experience, is a rapidly changing area. This course will be a deep dive into current topics in machine learning, collected from papers appearing at recent machine learning conferences.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6616 - Neuroevolution and Generative and Developmental Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 3503C or C.I.

Focuses on evolving neural networks for difficult sequential decision and control tasks and associated issues in efficient encoding and representation.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6640 - Computer Understanding of Natural Language**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5636.

A study of the different approaches to build programs to understand natural language. The theory of parsing, knowledge representation, memory, and inference will be studied.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6671 - Intelligent Systems: Robots, Agents, and Humans

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5610 or C.I.

Includes practical techniques for designing intelligent agents capable of planning, learning, and cooperation. Discussion of psychological/social issues.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6675 - Complex Adaptive Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course is an introduction to the field of complex adaptive systems and will cover basic definitions, theoretical background, and empirical analyses.

Fall

College of Engineering and Computer Science - Department of Computer Science

CAP 6676 - Knowledge Representation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CAP 5636. Topics covered include terminological languages, logicist approaches, ontologies, ontological and conceptual relativity, processes, intangibles, time, building large knowledge bases, and complexity analysis.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6701 - Real-time Realistic Rendering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 4720 or CAP 5725.

GPU Programming; State-of-the-art algorithms for: Real-time rendering of a lighting effects and realistic materials; Real-time volume rendering; real-time simulation and rendering of smoke.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6721 - Ray Tracing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CAP 5725, programming experience.

Advanced graphics: Implementation of ray tracing algorithm plus extensions, spatial subdivisions, MC sampling, camera models, texture mapping, instancing.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CAP 6737 - Interactive Data Visualization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP 5711. Principles and techniques for interactive data visualization that are useful for analyzing, presenting and exploring information are covered. The emphasis will be on algorithmic aspects of developing interactive visualization. The students will receive practical experience of building interactive visualization systems.

Spring

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

CAP 6909 - Research Report

College of Engineering and Computer Science

CAP 6918 - Directed Research

College of Engineering and Computer Science

CAP 6938 - ST: Advanced Virtual Reality

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Basic knowledge of VR application development is recommended.

Advanced topics in virtual reality: Current and emerging technologies, methods, and application domains.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6938 - ST: Immersive Visualization: Using Virtual Reality Techniques to Extract Knowledge from Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Given that the field is new there are no predefined systems to develop immersive visualization applications, therefore some programming experience equivalent to an introductory programming course is required. Some data processing experience as well as 2D visualization and Virtual Reality development experience would be beneficial but is not formally required.

Data sizes are growing beyond what standard tools can handle. This course looks at using immersive and virtual reality techniques to analyze and understand data.

Spring

College of Engineering and Computer Science - Department of Computer Science

CAP 6942 - Project in Data Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP 5711, CAP 5610, CNT 5805 and STA 6704. A project-focused course that demonstrates mastery of data analytics through development of novel algorithms or innovative application of existing techniques for data mining applications.

Spring, Summer

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

CAP 7919 - Research

College of Engineering and Computer Science

CAP 7939 - Special Topics

College of Engineering and Computer Science

Computer Design/Architecture

CDA 5106 - Advanced Computer Architecture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4768C.

Modern processor design, instruction-level parallelism, thread-level parallelism, data-level parallelism, memory hierarchy, and I/O.

Fall, Spring

College of Engineering and Computer Science - Department of Computer Science

CDA 5110 - Parallel Architecture and Algorithms

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 4210, CDA 5106.

General-purpose vs. special-purpose parallel computers; arrays, message-passing; shared-memory; taxonomy; parallelization techniques; communication synchronization and granularity; parallel data structures; automatic program restructuring.

Occasional

College of Engineering and Computer Science - Department of Computer Science

CDA 5209 - Foundations of Secure Execution Environment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CDA 5106

This class is a graduate course covering the foundations of secure execution environment.

College of Engineering and Computer Science - Department of Computer Science

CDA 5220 - Foundations of Secure Execution Environment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CDA 5106.

This class covers the foundations of secure execution environment.

Spring

College of Engineering and Computer Science - Department of Computer Science

CDA 6107 - Parallel Computer Architecture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): CDA 5106.
Principles and trade-offs in the design of parallel architectures, shared-memory, message-passing, dataflow, data-parallel machines, cache coherence protocols, and consistence models.
Spring

College of Engineering and Computer Science - Department of Computer Science

CDA 6221 - Advanced Topics in Secure Execution Environment

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): CDA 5201.
This class covers the advanced topics in secure execution environment.
Occasional

College of Engineering and Computer Science - Department of Computer Science

CDA 6530 - Performance Models of Computers and Networks

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.
Performance models of computer systems and networks using probability models and discrete event simulations. Queuing theory and modeling tools.
Occasional

College of Engineering and Computer Science - Department of Computer Science

Computer Engineering

CDA 5121 - High Performance Computing and Programming

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): COP 3503C or C.I.
Basic hardware and software knowledge and essential programming skills for high-performance computing (HPC) including GPU computing and big data computing.
Fall

College of Engineering and Computer Science - Department of Computer Science

CEN 5016 - Software Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4331C.

Application of formal software processes, engineering methods, and documentation standards to the development of large scale software systems. A team project is required.

Spring

College of Engineering and Computer Science - Department of Computer Science

CEN 6075 - Formal Specification of Software Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Discrete math (equivalent to COT 3100C, MAD 2104, or MHF 3302) or C.I.

Issues and current research in formal specification and verification of software-intensive systems. mathematical models and formalisms.

Odd Spring

College of Engineering and Computer Science - Department of Computer Science

CEN 6087 - Cloud Computing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CDA 5106 or C. I.

Introduces cloud computing, infrastructure, applications, architecture, resource management, security, cloud storage systems and networks for computer clouds.

Fall

College of Engineering and Computer Science - Department of Computer Science

Computer General Studies

CGS 5131 - Computer Forensics I: Seizure and Examination of Computer Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Computer literacy and C.I.

Legal issues regarding seizure and chain of custody. Technical issues in acquiring computer evidence. Popular file systems are examined. Reporting issues in the legal system.

Material and Supply Fee: \$50.00 *Fall*

College of Engineering and Computer Science - Department of Computer Science

Computer Networks

CNT 5008 - Computer Communication Networks Architecture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4768C.

Computer networks, layers, protocols and interfaces, local area networks networking.

Fall

College of Engineering and Computer Science - Department of Computer Science

CNT 5410L - Cyber Operations Lab

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

IDC 5602 IDC 5602 or C.I. Programming, software, and hardware components for cybersecurity operations related to system administration, firewalls, cyber attack, cyber defense, security, secure architectures at network and computer level.

Summer

College of Engineering and Computer Science - Department of Computer Science

CNT 5805 - Network Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Undergraduate degree in CS, EE, or CpE. The emerging science of complex networks and their applications. Focus will be on algorithms, mathematical theories, and computational methods that analyze complex networks and predict their behavior.

Even Fall

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

CNT 5917 - Directed Research

College of Engineering and Computer Science

CNT 6418 - Computer Forensics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGS 5131 or C.I.

Computer network protocols and security models, cryptography, network intrusion detection and prevention, digital evidence collection and legal issues involved in network forensics, wireless security and forensics.

Material and Supply Fee: \$50.00 *Spring*

College of Engineering and Computer Science - Department of Computer Science

CNT 6519 - Wireless Security and Forensics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Digital Forensics MS major or CDA 5106 or COT 5405.

Advanced topics in wireless network security, security management, cryptography, wireless forensics and related areas.

Fall

College of Engineering and Computer Science - Department of Computer Science

CNT 6707 - Advanced Computer Networks

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CNT 5008 or C.I.

Recent advances in computer networks, overlay and multihomed networks, routing and multicasting, Internet friendly protocols, congestion control, QoS-differentiated services, cellular networks.

Spring

College of Engineering and Computer Science - Department of Computer Science

CNT 6918 - Directed Research

College of Engineering and Computer Science

CNT 7919 - Doctoral Research

College of Engineering and Computer Science

Computer Programming

COP 5021 - Program Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4020 and COT 4210 or C.I.

Static analysis of programs including theoretical and practical limitations, data flow analysis, abstract interpretation, and type and effect systems. Tools to automate program analysis.

Even Spring

College of Engineering and Computer Science - Department of Computer Science

COP 5537 - Network Optimization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Techniques for modeling complex, interconnected systems as networks; optimization with graph theory; algorithms, data structures, and computational complexity; statistical methods for studying large, evolving networks.

Fall

College of Engineering and Computer Science - Department of Computer Science

COP 5611 - Operating Systems Design Principles

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4600.

Structure and functions of operating systems, process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies.

Spring

College of Engineering and Computer Science - Department of Computer Science

COP 5621 - Compiler Construction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP4020 and COT 4210. Techniques in the design and implementation of compilers. Optimization, code generation, error recovery, attributed grammars. A project is required.

Odd Fall

College of Engineering and Computer Science - Department of Computer Science

COP 5711 - Parallel and Distributed Database Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4710.

Storage manager, implementation techniques for parallel DBMSs, distributed DBMS architectures, distributed database design, query processing, multidatabase systems.

Occasional

College of Engineering and Computer Science - Department of Computer Science

COP 5818 - Full Stack Development for FinTech

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): COT 5480.

Fundamentals of web technologies; front-end design using HTML5, CSS3 and ReactJS; SQL and NoSQL databases; back-end design.

Fall

College of Engineering and Computer Science - Department of Computer Science

COP 5917 - Directed Research

College of Engineering and Computer Science

COP 5937 - ST: Hacking For Defense (H4D): Solving National Security Issues with the Lean Launchpad

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Teaches entrepreneurship and provides opportunity for teams to rapidly build products and services that solve real problems for the Defense (DoD) and Intelligence Community (IC).

Spring

College of Engineering and Computer Science - Department of Computer Science

COP 6526 - Parallel and Cloud Computation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP 5711. The course introduces students to parallel computing across the hardware-software stack. Special emphasis is placed on parallel programming using emerging architectures and technologies.

Fall

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

COP 6616 - Multicore Programming

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5405 or C.I.

The course focuses on the computational principles, algorithms, and tools for multi-processor programming. Topics of study include programming models and frameworks, lock-free synchronization, transactional memory.

Occasional

College of Engineering and Computer Science - Department of Computer Science

COP 6730 - Transaction Processing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4710.

Transaction models, transaction monitors, isolation concepts and lock manager implementation, log manager, transaction manager, file and buffer management, client-server computing.

Occasional

College of Engineering and Computer Science - Department of Computer Science

COP 6731 - Advanced Database Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 5711.

Selected topics concerning object-oriented databases, multimedia databases, active databases, temporal databases, spatial databases, and information systems.

Occasional

College of Engineering and Computer Science - Department of Computer Science

COP 6909 - Research Report

College of Engineering and Computer Science

COP 6918 - Directed Research

College of Engineering and Computer Science

COP 6938 - Special Topics

College of Engineering and Computer Science

COP 7919 - Research

College of Engineering and Computer Science

COP 7939 - Special Topics

College of Engineering and Computer Science

Computer Science and Information Systems

CIS 5256 - Software Development Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COP 4331C and Computer Science major. The course teaches the concepts necessary to manage software projects successfully, with a focus on software quality, effective development practices, team dynamics, appropriate leadership style.

Fall

College of Engineering and Computer Science - Department of Computer Science

CIS 5730 - Blockchains and Smart Distributed Contracts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5840.

Introduction to blockchains; consensus and decentralization mechanisms; symmetric and public key cryptography; bitcoin protocols and APIs; alternatives to bitcoins; smart contracts; Ethereum virtual machine; Solidity programming

language; Web3 API; Hyperledger; scalability and other challenges of blockchain systems. Introduction to blockchains; consensus and decentralization mechanisms; symmetric and public key cryptography; bitcoin protocols and APIs; alternatives to bitcoins; smart contracts; Ethereum virtual machine; Solidity programming language; Web3 API; Hyperledger; scalability and other challenges of blockchain systems.

Fall

College of Engineering and Computer Science - Department of Computer Science

CIS 5917 - Directed Research

College of Engineering and Computer Science

CIS 5930 - Special Topics

College of Engineering and Computer Science

CIS 5937 - SPECAIL TOPICS

College of Engineering and Computer Science

CIS 6206 - Electronic Discovery for Digital Forensics Professionals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CGS 5131 or C.I. This course will introduce experienced digital forensics students to legal and practical issues regarding electronic discovery, including legal requirements, technical solutions and practical aspects.

Fall

College of Engineering and Computer Science - Department of Computer Science

CIS 6207 - The Practice of Digital Forensics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGS 5131 and CNT 6418, or C.I.

Application of digital scientific techniques to solve information assurance, forensic and legal problems.

Fall, Spring

College of Engineering and Computer Science - Department of Computer Science

CIS 6386 - Operating Systems and File System Forensics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGS 5131 or C.I.

In-depth coverage of computer forensics related issues associated with multiple operating systems, multiple file systems, and applications.

Spring

College of Engineering and Computer Science - Department of Computer Science

CIS 6395 - Incident Response Technologies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Digital Forensics MS major or CDA 5106 or COT 5405.

This course covers security incidents and intrusions. Topics include: identifying and categorizing incidents, responding to incidents, log analysis, network traffic analysis, and tools.

Fall

College of Engineering and Computer Science - Department of Computer Science

CIS 6614 - Advanced Software Systems Security

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CIS 4615.

This course will cover various advanced topics on software threat modeling, secure software development life cycle, common security issues, and mitigations in modern software operation.

Fall

College of Engineering and Computer Science - Department of Computer Science

CIS 6909 - Research Report

College of Engineering and Computer Science

CIS 6918 - Directed Research

College of Engineering and Computer Science

CIS 6938 - Special Topics

College of Engineering and Computer Science

CIS 7919 - Research

College of Engineering and Computer Science

IDC 6941 - Capstone in Modeling and Simulation of Behavioral Cybersecurity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDC 6601 and CNT 5410L

Interdisciplinary teams of students apply modeling and simulation, cybersecurity, and psychology techniques to the analysis and prevention of emerging cybersecurity threats.

Fall

College of Graduate Studies - Department of Interdisciplinary Studies

Computing Theory

COT 5405 - Design and Analysis of Algorithms

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 4210.

Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis.

Fall, Spring

College of Engineering and Computer Science - Department of Computer Science

COT 5480 - Computational Methods in FinTech I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Fundamentals of data structures; definition and analysis of algorithms; basic classes of algorithms; graph algorithms; algorithms for identity, privacy, anonymity and automation.

Fall

College of Engineering and Computer Science - Department of Computer Science

COT 5570 - Introductory Mathematics for Modeling and Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Preparatory analytical survey of material for the M&S core Math Foundations course: algebra, discrete mathematics, and basic probability.

Fall

College of Graduate Studies - Department of Interdisciplinary Studies

COT 5600 - Quantum Computing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 3503C.

This course introduces basic concepts in quantum circuits and quantum algorithms.

Spring

College of Engineering and Computer Science - Department of Computer Science

COT 5917 - Directed Research

College of Engineering and Computer Science

COT 5937 - Special Topics

College of Engineering and Computer Science

COT 6410 - Computational Complexity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5405.

Properties of algorithms, computational equivalence of machines, time-space complexity measures, examples of algorithms of different complexity, classification of algorithms, classes P and NP.

Occasional

College of Engineering and Computer Science - Department of Computer Science

COT 6417 - Algorithms on Strings and Sequences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5405 or C.I.

Study of algorithms for exact and approximate string pattern matching, sequence alignment and multiple string

alignment.
Occasional

College of Engineering and Computer Science - Department of Computer Science

COT 6481 - Computational Methods in FinTech II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5480.

Advanced data structures; advanced algorithms; automated accounting, risk management and tax automation; computer architectures and applications to financial technology; parallel programming on multiple processors and GPUs.

Spring

College of Engineering and Computer Science - Department of Computer Science

COT 6505 - Computational Methods/Analysis I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5405.

Analysis of direct and iterative solutions of systems of linear equations, eigenvalues and vectors and roots of nonlinear equations, error analysis.

Occasional

College of Engineering and Computer Science - Department of Computer Science

COT 6571 - Mathematical Foundations of Modeling and Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5570 or equivalent background.

Provides analytical background material relevant to the M&S program. Emphasize critical thinking and problem solving and conducts survey probability and statistics, linear algebra and calculus.

Spring

College of Graduate Studies - Department of Interdisciplinary Studies

COT 6602 - Introduction to Quantum Information Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COT 5600 Quantum Computing.

Basic concepts in quantum information theory and quantum error correcting codes.

Occasional

College of Engineering and Computer Science - Department of Computer Science

COT 6909 - Research Report

College of Engineering and Computer Science

COT 6918 - Directed Research

College of Engineering and Computer Science

COT 6938 - Special Topics

College of Engineering and Computer Science

Corrections

CJC 5020 - Foundations of Corrections

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CJC 6135 - Seminar in Institutional Corrections

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Criminal Justice Ph.D. Public Affairs (Criminal Justice track) Ph.D. program or C.I. This course will provide an overview and analysis of institutional corrections from an historical, philosophical, theoretical and empirical perspective.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CJC 6165 - Seminar in Community Corrections

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. program, Public Affairs (Criminal Justice track) Ph.D. program or C.I. Provides an overview and analysis of community-based punishment polices and practices, focusing on issues related to community-corrections programs, professionals, and role of community in controlling crime.

Summer

College of Community Innovation and Education - Department of Criminal Justice

CJC 6486 - Seminar in Correctional Effectiveness**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. program or C.I. Provides an overview and analysis of issues pertaining to correctional evaluation, focusing on the various effects of punishment on the offender, the criminal justice system, and society.

Fall

College of Community Innovation and Education - Department of Criminal Justice

Counselor Education**EGC 5917 - Directed Research**

College of Community Innovation and Education

EGC 5937 - Special Topics

College of Community Innovation and Education

EGC 6431 - Guiding Human Relationships I**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

C.I. Human relationship skills that will enhance intrapersonal and interpersonal relationship skills in classrooms.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

EGC 6432 - Guiding Human Relationships II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

C.I. Advanced human relationship skills that will enhance intrapersonal and interpersonal relationship skills in classrooms.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

EGC 6909 - Research Report

College of Community Innovation and Education

EGC 6918 - Directed Research

College of Community Innovation and Education

EGC 6938 - Special Topics

College of Community Innovation and Education

Creative Writing**CRW 5130 - Form and Theory in Creative Writing****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Creative Writing MFA or C.I.

Formal and theoretical study of creative writing of given genre (poetry, short fiction, etc). May be used in the degree program a maximum of 3 times.

Occasional

College of Arts and Humanities - Department of English

CRW 5917 - Directed Research

College of Arts and Humanities

CRW 5937 - Special Topics

College of Arts and Humanities

CRW 5948C - Creative Writing Service Learning

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to Creative Writing MFA or C.I.

On-site experience leading and sharing creative writing in community settings. May be used in the degree program a maximum of 3 times.

Occasional

College of Arts and Humanities - Department of English

CRW 6025 - Advanced Graduate Writing Workshop**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Creative Writing MFA and C.I.

Writing and revising in one established form. Advanced Graduate Writing Workshop may be taken five times (for a total of 15 hours) in order to produce a book-length manuscript (fiction, poetry, or other genre). May be used in the degree program a maximum of 5 times.

Fall, Spring

College of Arts and Humanities - Department of English

CRW 6720 - Professional Development in Creative Writing**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Professional development lectures, discussions, and hands-on activities to assist graduate students in preparing for successful careers in writing, editing/publishing, and teaching.

Fall

College of Arts and Humanities - Department of English

CRW 6721 - Literary Journal Editing**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Creative Writing MFA program or C.I.

Experiential-learning course. Students explore the history and current issues in literary publishing and participate in editing and producing an existing national journal published by the English department.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

CRW 6806C - Teaching Creative Writing

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Graduate standing in MFA in Creative Writing program or C.I.

Addresses trends in creative writing pedagogy, workshop alternatives, course design, classroom management, role of creative writing in academia.

Fall

College of Arts and Humanities - Department of English

CRW 6909 - Research Report

College of Arts and Humanities

CRW 6918 - Directed Research

College of Arts and Humanities

CRW 6920 - Fiction Workshop

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admissions to the MFA Creative Writing Program and C.I.

Examination of fiction with an emphasis on the development of individual styles, writing and revising and preparing for publication.

Every Semester

College of Arts and Humanities - Department of English

CRW 6921 - Multi-Genre Workshop

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admissions to the MFA Creative Writing Program or C.I.

Examination of two or more genres with an emphasis on the development of individual styles, writing and revising and preparing for publication.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Arts and Humanities - Department of English

CRW 6922 - Novel Workshop

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admissions to the MFA Creative Writing Program or C.I. Corequisite(s): None

Examination of the novel with an emphasis on the development of individual styles, writing and revising and preparing for publication.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Arts and Humanities - Department of English

CRW 6923 - Nonfiction Workshop

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admissions to the MFA Creative Writing Program or C.I.

Examination of creative nonfiction with an emphasis on the development of individual styles, writing and revising and preparing for publication.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Arts and Humanities - Department of English

CRW 6924 - Poetry Workshop

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admissions to the MFA Creative Writing Program or C.I.

Examination of poetic forms with an emphasis on the development of individual styles, writing and revising and preparing for publication.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Arts and Humanities - Department of English

CRW 6938 - Special Topics

College of Arts and Humanities

CRW 6976 - Scholarship and Publication Models

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Creative Writing MFA, graduate standing or C.I.

Overview of thesis-writing process from proposal to defense, and possible subsequent publication.

Occasional

College of Arts and Humanities - Department of English

Criminology and Criminal Justice

CCJ 5015 - The Nature of Crime

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I. This course provides an overview of major dimensions of crime in the U.S.; epidemiology of crime, costs of crime, and typologies of crime and criminals.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 5456 - The Administration of Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate program, or C.I.

This course provides an overview of the criminal justice system and a critical analysis of formal and informal processing of offenders by criminal justice agencies.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Criminal Justice

CCJ 5917 - Directed Research

College of Community Innovation and Education

CCJ 5931 - Contemporary Criminal Justice Strategies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Graduate level analysis of contemporary crime issues and the reactions of the criminal justice system to combat those crimes at both the national and international levels. May be used in the degree program a maximum of 3 times.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 5937 - Special Topics

College of Community Innovation and Education

CCJ 6027 - Criminal Justice Responses to Terrorism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Criminal Justice graduate program or C.I. Critically examines phenomena of domestic and international terrorism to give students a solid grounding of salient issues in developing crime control strategies to prevent terrorism and mount appropriate responses to incidents.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6038 - Violent Crimes and Criminals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program or C.I.

This course provides critical examination of violent crimes and criminals. Students will focus on gathering, reviewing, analyzing and synthesizing evidence-based data on violent crime.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6051 - Community Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Examines concepts of community justice as they relate to an alternative form of administering criminal justice.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6067 - Perspectives on Genocide

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program or C.I.

This course provides a critical examination of criminal justice perspectives on genocide.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6073 - Data Management Systems for Crime Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Criminal Justice, Criminal Justice certificate, or C.I.

This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6074 - Investigative and Intelligence Analysis: Theory and Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course is designed to familiarize the student with the complex analytical techniques and procedures used to support criminal investigations and criminal intelligence efforts.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6077 - Advanced Crime Mapping and Analysis in Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCJ 6073 and Crime Mapping and Analysis in Criminal Justice or C.I. Develop advanced mapping and analysis proficiency utilizing sophisticated spatial analysis techniques.

Summer

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6079 - Crime Mapping and Analysis in Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCJ 6073.

Course provides the conceptual knowledge and practical skills to design and implement GIS based analysis of community crime problems.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6106 - Policy Analysis in Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I.

This course is designed to familiarize students with the causes and consequences of public policy with an emphasis on criminal justice policy.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6118 - Criminal Justice Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Theory and research on complex organizations are applied in criminal justice settings. Alternative organizational goals, structures, staffing patterns, management styles and planning strategies are examined.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6335 - Criminal Justice Sentencing and Punishment Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I.

This course critically examines the impact of sentencing policy on the correctional system, offenders, their families and the communities to which they return upon release.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6366 - Criminal Justice Responses to Domestic Violence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program and CCJ 6704 or C.I.

This course examines the criminal justice response to domestic violence. Particular emphasis is placed on historical responses, policy as well as an examination of the current role of police, prosecutors, defense attorneys and magistrates in handling domestic assault and battery.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6431 - Leadership and Ethics in Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Examines the leadership issues faced by decision makers in the criminal justice system.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6485 - Issues in Justice Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Examination of selected issues of public policy regarding the functions and roles of criminal justice agencies vis-a-vis other government departments or agencies and public purposes. May be repeated for credit.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6489 - Professionalism in Criminal Justice Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Criminal Justice, or C.I.

Historical evolution of professionalism in criminal justice organizations and how it has changed the structure or practices of each involved agency.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6617 - Mental Disorder, Crime, and Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCJ 5456, CCJ 5015, or C.I.

An overview of the relationship between mental disorder, crime, and the criminal justice system.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6626 - Copycat Crime and Criminals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Explores the nature and prevalence of copycat crime while reviewing the theories, research and criminal justice policies associated with it.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6669 - Race, Crime and Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program or C.I.

This course is designed to acquaint students of all disciplines with the operational dynamics of race, crime and justice.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6675 - Human Rights and Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, Global Health and Public Affairs certificate, or C.I. Provides in-depth analysis of the human rights movement and its potential impact upon criminal law as well as the juvenile and criminal justice systems.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6696 - Criminal Justice Perspectives on Human Trafficking**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. This course introduces students to the problem, causes and suggested solutions for human trafficking both in the United States and abroad.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6699 - Criminal Justice Perspectives on Sexual Assault**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice master's program. This course will examine the public policy response and the functions of criminal justice agencies as they identify, supervise and punish offenders and assist victims of sexual assault.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6702 - Advanced Research Methods in Criminal Justice**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program Research track and CCJ 6704.

Exposes students to the application of research methods in criminal justice. This course serves as the capstone experience for the Research Track.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6704 - Research Methods in Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice Master's program or C.I.

An advanced examination of research methodology in criminal justice settings on such topics as problem conceptualization, sampling designs, research proposals, data collection, and evaluation techniques.

Fall, Spring, Even Summer

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6706 - Data Analysis in Criminal Justice I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CCJ 6704 and admission to Criminal Justice MS or MPA/MSJ Dual degree program. Application of statistical software to quantitative and qualitative methods in Criminal Justice.

Fall, Spring, Odd Summer

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6714 - Data Analysis in Criminal Justice II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Master's program and CCJ 6706. Application of multivariate linear and nonlinear statistical techniques to criminal justice issues. Focus is on selecting appropriate procedures, computer-based analysis and interpreting and applying results.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6717 - CJ Theories of Crime Analysis and Prevention

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice M.S. program, Crime Analysis certificate or C.I. This course provides the theoretical foundation for crime analysis and crime prevention.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6902 - Qualitative Criminal Justice Research Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice PhD, or C.I. This course provides the theoretical and methodological foundation for conducting and assessing qualitative criminal justice research.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6909 - Research Report

College of Community Innovation and Education

CCJ 6918 - Directed Research

College of Community Innovation and Education

CCJ 6934 - Criminal Justice, Crime, and Popular Culture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Explore how Criminal Justice System, criminals, and crime are portrayed in entertainment and news media, and the effects portrayals have on society and criminal justice.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6938 - Special Topics in Criminal Justice

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Students are exposed to in-depth coverage of a particular contemporary problem in criminal justice, for example, the death penalty or the influence of the media on crime and punishment.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 6939 - Special Topics

College of Community Innovation and Education

CCJ 6946 - Criminal Justice Practicum

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Students will undertake a significant research project in a criminal justice agency. May be repeated for credit.

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7019 - Seminar in the Nature of Crime

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. program. This course will cover the major criminological theories pertaining to the causes and consequences of criminal behavior, including early and contemporary perspectives.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7096 - Seminar in Criminal Justice Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission into the Criminal Justice Ph.D. program. Coverage of the three central elements of the criminal justice system - policing, courts and corrections - and the primary factors affecting practices and operations of each.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7457 - Seminar in Criminal Justice Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. program. This course examines the theoretical foundations of Criminal Justice. The focus is on explaining how and why Criminal Justice agents, agencies, and systems behave.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7708 - Advanced Quantitative Methods for Criminal Justice Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. program. This course will cover advanced regression techniques appropriate for analyzing experimental, quasi-experimental and observational criminal justice data including general linear, log-linear and multivariate models.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7725 - The Geography of Crime: Theory and Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. program and CCJ 6073 and CCJ 6709 or equivalent. This course will cover key theoretical and practical approaches related to the understanding and examination of the geography of crime.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7727 - Advanced Research Methods in Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Criminal Justice Ph.D. program. This course will cover advanced research design topics and methodologies used in criminal justice research including quantitative, qualitative and mixed method techniques.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7741 - Advanced Quantitative Methods II for Criminal Justice Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice Ph.D. program and CCJ 7708.

Course covers the theory and application of an array of advanced statistical modeling techniques for different types of

data and research designs in criminal justice.

Odd Fall, Even Fall

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7747 - Hierarchical Linear Modeling in Criminal Justice Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice Ph.D. program and CCJ 7708.

Overview of techniques of hierarchical linear modeling with an emphasis on application in criminal justice research.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7752 - Structural Equation Modeling in Criminal Justice Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. Program and CCJ 7708. Overview of techniques of structural equation modeling with an emphasis on application in criminal justice research.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7775 - Criminal Justice Research in the Community

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission into the Criminal Justice Ph.D. program. This course addresses the history of community-based research, different models of community-based research, and challenges associated with conducting community-based research in criminal justice.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7785 - Teaching Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CCJ 7096, CCJ 7019 and CCJ 7457. This course is designed to expose students to various pedagogical philosophies, approaches, technologies, and ethical issues from a criminal justice perspective.

Summer

College of Community Innovation and Education - Department of Criminal Justice

CCJ 7919 - Research

College of Community Innovation and Education

CCJ 7939 - Special Topics

College of Community Innovation and Education

CJE 5917 - Directed Research

College of Community Innovation and Education

CJE 6909 - Research Report

College of Community Innovation and Education

CJE 6918 - Directed Research

College of Community Innovation and Education

CJT 5937 - Special Topics

College of Community Innovation and Education

CJT 6938 - Special Topics

College of Community Innovation and Education

Developmental Psychology

DEP 5057 - Developmental Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Psychological aspects of development including intellectual, social, and personality factors.

Spring

College of Sciences - Department of Psychology

DEP 5917 - Directed Research

College of Sciences

DEP 5937 - Special Topics

College of Sciences

DEP 6909 - Research Report

College of Sciences

DEP 6918 - Directed Research

College of Sciences

DEP 6938 - Special Topics

College of Sciences

Digital Media

DIG 5045C - Principles of Interactive Entertainment I

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Admission to Digital Media MS program or C.I.
Interactive digital content creation technologies and development processes.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5046C - Principles of Interactive Entertainment II

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): DIG 5045C or C.I.
Advanced principles of interactive digital content creation technologies and development processes.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5137 - Information Architecture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Film and digital media majors or C.I.

Exploration of the process of formal design of interactive processes, examining the theories of usability and object oriented design.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5348C - Digital Asset Creation**3 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Admission to FIEA MS in Interactive Entertainment program or C.I. Introduction to digital art asset creation fundamentals, including figure drawing, digital painting, 3d modeling, animation, character setup, technical art and contemporary game engine topics.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5366C - Animation and Visual Effects Production II**3 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

DIG 5386C Animation and Visual Effects Production I or C.I. Topics in animation and visual effects project creation and production pipeline management in a team environment.

Spring

College of Arts and Humanities - School of Visual Arts and Design

DIG 5378C - Editing for Animation and Visual Effects I: Theory and Production**3 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Exploration of history and grammar of editing will be examined, adapted and applied to the specific needs of narrative animation and live-action visual effects.

Spring

College of Arts and Humanities - School of Visual Arts and Design

DIG 5385C - Visual Effects for Animation and Live Action I

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Application of digital tools to generate visual effects animation for successful integration with animate and live action media, and the aesthetic critique of results.

Spring

College of Arts and Humanities - School of Visual Arts and Design

DIG 5386C - Animation and Visual Effects Production I

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Production of a short animated or visual effects concept to completion with the focus on working as an individual to meet deadlines.

Fall

College of Arts and Humanities - School of Visual Arts and Design

DIG 5387C - Visual Development and Design for Animation and Visual Effects

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Design concepts are applied to animation environments to create a "personality of place", visual continuity, and to create the visual universe of the story.

Spring

College of Arts and Humanities - School of Visual Arts and Design

DIG 5439C - Script and Story Development for Animation and Visual Effects

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Students will write and storyboard original narrative short animation, or script and storyboard solutions addressing specific live action problems in visual effects.

Fall

College of Arts and Humanities - School of Visual Arts and Design

DIG 5487 - Media Aesthetics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Aesthetics within digital environments, relationship between technologies, visual elements, and the body. Introduction to theoretical traditions along with written and digital projects, including an exhibition.

Odd Fall, Even Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5508 - Programming for Digital Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course provides a foundation for understanding and applying the elements of programming which target interactive media. Topics include functions, variables, classes, data types, and design patterns.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5529C - Production for Media

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Admission to Digital Media MS program or C.I.

Theories and practices of production processes for interactive entertainment.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5548C - Rapid Prototype Production I

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Admission to Digital Media MS or C.I. Students engage in interdisciplinary teams to create rapid development projects.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5549 - Experimentation, Application, and Innovation in Games

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): DIG 5529C or C.I.

Survey and development of games being used in non-traditional applications, such as medical simulation, education and research.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5557C - Production and Design I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to FIEA MS in Interactive Entertainment program or C.I.

Theory and methodology for creation and communication of videogame designs.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5565C - Digital Asset Management Systems

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Graduate standing or C.I.

Structure and use of Digital Asset Management Systems (DAMS). Protection of intellectual property rights by encryption, water marking, steganography. Version and work process flow control systems.

Occasional

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5637 - Game Programming Fundamentals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to FIEA M.S. in Interactive Entertainment program or C.I. An introduction to real-time game programming

fundamentals, including computer architecture and low-level programming and optimization. Specific attention to game consoles and cross-platform software development.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5831 - Computational Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): DIG 5508 Programming for Digital Media.

Computational media techniques used in interactive media, focusing on authorship and creative applications. Topics include style transfer, voice recognition, and synthesis and text generation.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5856 - Experimentation, Application and Innovation in Games

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

DIG 5529C or C.I. Survey and development of games being used in non-traditional applications, such as medical simulation, education and research.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 5865 - The History of Animation and Visual Effects

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. History of animation and visual effects from beginning to present covering a wide-range of narrative, independent, commercial, and experimental projects produced throughout the world.

Fall

College of Arts and Humanities - School of Visual Arts and Design

DIG 5875C - Introduction to Modeling and Simulation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): STA 2023 or equivalent.

Introduction to the theory and practice of modeling and simulation with emphasis on multidisciplinary scientific underpinnings.

Fall, Spring, Summer

College of Graduate Studies - Department of Interdisciplinary Studies

DIG 5917 - Directed Research

Nicholson School of Communication and Media

DIG 6099C - Media Distribution

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): DIG 6558 or C.I.

Theory and practical application of videogame messaging, advertisement and distribution.

Summer

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6136 - Design for Interactive Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): DIG 5508: Programming for Digital Media, or C.I.

This studio course gives students tangible experience with the design principles, methodologies, and processes used for interactive media.

Odd Spring, Even Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6365C - Media and Music for Animation and Visual Effects

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Course will examine the use and effect of music/sound effects in various forms of media: film, games, commercials, and other forms of multimedia.

Spring

College of Arts and Humanities - School of Visual Arts and Design

DIG 6377C - Visual Effects for Animation and Live Action II

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

DIG 5385C Visual Effects for Animation and Live Action I or C.I. Integration of digital elements and live action footage and the aesthetic critique of those results.

Spring

College of Arts and Humanities - School of Visual Arts and Design

DIG 6379C - Editing for Animation and Visual Effects II: Practical Editing

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): DIG 5378C or C.I.

Students will apply practical editing solutions and incorporate audio to their own animation or visual effects material.

Fall

College of Arts and Humanities - School of Visual Arts and Design

DIG 6384C - Directing for Animation and Visual Effects

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Topics in production planning and adaptation of live action directing techniques to unique problems in Animation and Visual Effects.

Fall

College of Arts and Humanities - School of Visual Arts and Design

DIG 6388C - Animation and Visual Effects Production III

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): DIG 5366C or C.I.

Preproduction (including storyboards, visual development, and character and environmental design) for individual MFA thesis project created and presented for faculty approval.

Fall

College of Arts and Humanities - School of Visual Arts and Design

DIG 6389C - Animation and Visual Effects Production IV

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): DIG 6388C or C.I.

Research and production of an initial animation test demonstrating the visual look and process strategy for final MFA thesis project and presentation for faculty approval.

Spring

College of Arts and Humanities - School of Visual Arts and Design

DIG 6432 - Transmedia Story Creation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Film and digital media majors or C.I.

Repurposing of traditional stories: creation of authentic environments and the emergence of new authoring scenarios.

Fall, Summer

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6436 - Ethnographic Storytelling and New Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Theories and practices related to ethnographic storytelling using new media.

Odd Fall

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

DIG 6524 - Studio 1

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Studio project management, conceptualization, and prototyping for intensive digital projects. Create project proposal and timeline, concept and design documentation, and prototype, and participate in critiques.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6528 - Studio 2

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Continuing studio sequence for students producing a culminating digital project. Students produce a polished final project for public showcase and/or exhibition.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6546 - Previsualization and Concept Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Film and digital medial majors, DIG 6136, or C.I.

Skills and knowledge for planning and developing a new feature length film or digital media project.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6547C - Preproduction and Prototyping

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): DIG 5529C or C.I.

Standard pre-production process in interactive entertainment.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6551 - Theory and Practice of Interactive Storytelling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Analysis and creation of interactive stories within and across platforms. What makes stories compelling, how to exploit

the particular affordances of media through authors communicate.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6558 - Production and Design II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

DIG 5557C or C.I. Advanced principles of game design and production including integrating development skills into level designs and complete games.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6559C - Advanced Digital Asset Creation

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

DIG 5348 or C.I. Advanced techniques in digital asset specializations such as 2d art, mobile application art, 3d modeling and texturing, animation, lighting and effects and technical art topics.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6589C - Digital Asset Portfolio Development

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

DIG 6559C or C.I. Concentration in professional digital artist portfolio development in specializations such as 2d art, mobile application art, 3d modeling and texturing, animation, lighting and effects and technical art topics.

Summer

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6605 - Physical Computing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): DIG 5137.

Introduces methods of connecting physical objects to microprocessor controllers in order to build original interactive components for research or artistic purposes.

Odd Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6635 - Applied Programming Mechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

DIG 6638 or C.I. Application of advanced software development principles for interactive entertainment.

Summer

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6638 - Advanced Game Programming

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

DIG 5637 or C.I. Advanced principles of software development for interactive entertainment.

Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6647 - History and Theory of Dynamic Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Contemporary interactive media theory and history of convergence between computing, fine arts, and narrative media.

Through hands on interactive media production, synthesis and evaluation-oriented projects.

Odd Fall, Even Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6718C - Interactive Entertainment Project

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): DIG 5046C or C.I.

Students implement a complete game, based on designs pre-produced and prototyped in previous courses.
Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6812 - Digital Interaction for Informal Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Theories of digital media interaction that apply to the design of interfaces that help people learn in informal contexts.
Occasional

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6817 - Contemporary Topics in Interactive Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing. Corequisite(s): .

Digital media research topics including games for health, social impact, and art; folklore in interactive media; data visualizations and informal learning; extended reality design.

Occasional

College of Sciences - Nicholson School of Communication and Media

DIG 6825 - Research Methods for Interactive Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Scholarly and creative research design and methods for interactive media. Topics: research questions, literature reviews, qualitative, quantitative, and mixed methods, and story world research.

Odd Spring, Even Spring

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6836 - Design and Development for Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

A study of the applied design and development process on concepts and practices of literacy/electracy, including pedagogical, artistic, workplace, and leisure-based communicative practices.

Fall

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

DIG 6866C - Technical Problem Solving for Animation and Visual Effects

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Emerging Media MFA - Animation and Visual Effects track student or C.I. Addresses and solves unique problems presented by individualized graduate thesis projects in animation and visual effects.

Fall

College of Arts and Humanities - School of Visual Arts and Design

DIG 6944C - Game Design Practicum

6 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 6

Contact Hours: 8

Prerequisite(s): DIG 5046C or C.I.

Supervised experience supplementing theoretical and practical experiences involving new research developments or partnerships within industry.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

DIG 6947C - Digital Venture Practicum

6 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

DIG 6718 or C.I. Principles and application of digital venture business development, IP rights, market research, iterative production, monetization, support and distribution as it relates to a start-up entity.

Fall

Nicholson School of Communication and Media - Department of Games and Interactive Media

Economic Problems and Policy

ECP 5917 - Directed Research

College of Business Administration

ECP 5937 - Special Topics

College of Business Administration

ECP 5957 - Study Abroad

College of Business Administration

ECP 6909 - Research Report

College of Business Administration

ECP 6918 - Directed Research

College of Business Administration

ECP 6938 - Special Topics

College of Business Administration

ECP 7919 - Research

College of Business Administration

Economic Systems and Development

ECS 5917 - Directed Research

College of Business Administration

ECS 5937 - Special Topics

College of Business Administration

ECS 6909 - Research Report

College of Business Administration

ECS 6918 - Directed Research

College of Business Administration

ECS 6938 - Special Topics

College of Business Administration

Economics

ECO 5445 - Introduction to Business Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Master's in Economics or C.I. Students are introduced to important tools of business analytics; first, UNIX, SQLite, and Python; then analyzing data using R and implementing numerical methods using Python.

Fall

College of Business Administration - Department of Economics

ECO 5917 - Directed Research

College of Business Administration

ECO 5937 - Special Topics

College of Business Administration

ECO 6115 - Economic Analysis of the Firm

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA Master's program of Study Foundation Core.

Commodity price and output determination; factor price determination and functional income distribution; analysis of different types of markets.

Fall, Spring

College of Business Administration - Department of Economics

ECO 6118 - Microeconomic Theory I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 3101 (or equivalent), ECO 3410 (or equivalent), and ECO 6403 (concurrent enrollment), or C.I. Microeconomic principles governing individual decision-making relative to the theory of the firm and consumer choice.

Fall

College of Business Administration - Department of Economics

ECO 6315 - Seminar in Contemporary Economic Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 6118 or equivalent and ECO 6403 or equivalent.

Discussion and analysis of current economic problems and issues. May be used in the degree program a maximum of 3 times only when course content is different.

Occasional

College of Business Administration - Department of Economics

ECO 6403 - Mathematical Economics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 3101 (or equivalent), ECO 3410 (or equivalent), and ECO 6118 (co-requisite), or C.I.

Covers the foundations of economic theory with particular focus on the mathematical methods that are indispensable for proper understanding of the economic literature.

Fall

College of Business Administration - Department of Economics

ECO 6404 - Games and Economic Behavior

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and ECO 6118.

The study of interactive and strategic behavior relying on Experimental Game Theoretic literature.

Even Fall

College of Business Administration - Department of Economics

ECO 6416 - Applied Business Research Tools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Master's of Business Administration program foundation core courses; Core I Courses.

Multivariate methods and related tools applied to analyze business and economic data as an aid in decision making.

Fall

College of Business Administration - Department of Economics

ECO 6424 - Econometrics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 6403 (or equivalent) and ECO 6118 (or equivalent), or C.I.

Develops basic statistical methods and provides coverage of the general linear regression model, generalized least squares, generalized methods of moments, and multi-equation models.

Spring

College of Business Administration - Department of Economics

ECO 6445 - Data Wrangling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 5445, ECO 6405, ECO 6406, and ECO 6118.

Systematic development of data wrangling methods for use in business analytics as well as quantitative business fields.

Spring

Department of Economics

ECO 6909 - Research Report

College of Business Administration

ECO 6918 - Directed Research

College of Business Administration

ECO 6935 - Capstone in Business Analytics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Master's in Economics or C.I. Provides students with the culminating academic experience, a forum in which to develop and carry out research of a well-defined business analytics problem.

Occasional

College of Business Administration - Department of Economics

ECO 6936 - Capstone in Business Analytics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Master's in Economics or C.I., Capstone I. Provides students with continuing culminating academic experience, a forum in which to write-up as well as present research of a well-defined business analytics problem.

Occasional

College of Business Administration - Department of Economics

ECO 6938 - Special Topics

College of Business Administration

ECO 6949 - Cooperative Education in Economics

College of Business Administration

ECO 7116 - Microeconomic Theory II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 6118 (or equivalent) and ECO 6403 (or equivalent).

Advanced treatment of demand, production, cost, and market theory under varying competitive conditions.

Spring

College of Business Administration - Department of Economics

ECO 7426 - Econometrics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 6424 (or equivalent) or C.I.

Covers estimation of static and dynamic panel data models, and limited dependent variable models as well as sample selection problems.

Fall

College of Business Administration - Department of Economics

ECO 7919 - Research

College of Business Administration

ECO 7939 - Special Topics

College of Business Administration

QMB 6357 - Microeconomic Analysis for Business Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Introduction to the main tools of microeconomic analysis for use in business analytics.

Even Spring

College of Business Administration - Department of Management

Education: Physical Disabilities

EPD 5395 - Physical and Sociological Implications of Handicapping Conditions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Overview of physical and sociological factors which may contribute to delayed learning or physical impairments in the exceptional populations. Physical interventions and first-aid practices are examined.

College of Community Innovation and Education - School of Teacher Education

Education Supervision

EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): C.I.

The practical application of coaching and mentoring practices that satisfy the standards of clinical supervision and assure attainment of the Florida Educator Accomplished Practices.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

EDS 6123 - Educational Supervisory Practices I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Analysis of effective supervisory behavior as it relates to human relations/communication skills; leadership; motivation; curriculum development; community relations; and service to teaching.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDS 6130 - Educational Supervisory Practices II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDS 6123.

Analysis of effective supervisory behavior as it relates to planning and change; observation and conferencing skills; staff and group development, problem solving; and decision making.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDS 6365 - Education and National Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This course explores current issues and relationships between education and national development by studying multinational institutions and nongovernmental organizations engaged in educational planning worldwide.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDS 6909 - Research Report

College of Community Innovation and Education

Education: Adult Education

ADE 5917 - Directed Research

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ADE 5937 - Special Topics

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ADE 6678 - The Socio-Historical Context of Adult Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An overview of adult education examining the historical and philosophical roots, the current social context and the multiple disciplinary perspectives that inform the field.

Odd Fall

College of Community Innovation and Education - Department of Educational Leadership & Higher Education

Education: Career/Technical

ECT 5907 - Independent Study

College of Community Innovation and Education

ECT 5917 - Directed Research

College of Community Innovation and Education

ECT 5937 - Special Topics

College of Community Innovation and Education

ECT 5944 - Internship

College of Community Innovation and Education

ECT 5949 - Cooperative Education

College of Community Innovation and Education

ECT 5957 - Study Abroad

College of Community Innovation and Education

ECT 6791 - Research in Career Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Curricular, instructional, demographic, and trends research in the field of career and technical education.

Odd Spring, Even Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECT 6908 - Independent Research

College of Community Innovation and Education

ECT 6909 - Research Report

College of Community Innovation and Education

ECT 6918 - Directed Research

College of Community Innovation and Education

ECT 6938 - Special Topics

College of Community Innovation and Education

ECT 6946 - Internship

College of Community Innovation and Education

ECT 6958 - Study Abroad

College of Community Innovation and Education

ECT 6971 - Treatise (Thesis or Research Report)

College of Community Innovation and Education

ECT 6973 - Thesis Specialist

College of Community Innovation and Education

Education: Career/Workforce

ECW 5207 - Management of Career Education Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Study and achievement of selected competencies needed by career and workforce education teachers, supervisors, and local administrators in the management of career education programs in the schools.

Odd Spring, Even Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 5265 - Experiential Learning in Career and Workforce Education Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Study of various experiential learning methods (apprenticeships, internships, service learning, co-ops) and achievement of competencies to establish, manage, and coordinate programs within career and workforce education.

Odd Summer, Even Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 5561 - Student Guidance in the Career/Workforce Program

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Achievement of skills used by teachers and professionals as they gather student data, confer with students, and help students plan for employment or further education.

Odd Fall, Even Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 6067 - History of Career Education in the United States

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

A detailed examination of federal legislation, associations, organizations, people, events, and other key factors that define the history of career education in the U.S.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 6105 - Career Education Curriculum Planning and Implementation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Achievement of knowledge and skills necessary to participate in the initial determination, planning, organization, and implementation of new or expanded adult, career and workforce education, and technical education institutions or programs.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 6205 - Administration of Local Career Education Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Organization, personnel selection and assignment, and establishment of policies and procedures for local career and workforce education programs within federal, state and local requirements.

Odd Summer, Even Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 6206 - Supervision in Local Career and Technical Education Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

A study in the supervision of CTE instruction, including plans for teacher professional education, curriculum and instruction improvement, coordination of program activities, and personnel relations.

Odd Summer, Even Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 6268 - School, College, and Career Readiness

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The study and achievement of the knowledge, skills, and academic preparation competencies needed to establish, maintain, and coordinate school, college, and career readiness activities and programs.

Odd Spring, Even Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 6666 - Issues in Career Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

An examination of current issues in career education including changing work force demands and implications for secondary and postsecondary career education.

Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

ECW 6695 - School/Community Relations for Career and Technical Education Programs**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Assemble the knowledge and skills to utilize community resources and establish public relations procedures and practices for career and technical education (CTE) programs.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

Education: Early Childhood**EEC 5205 - Programs and Trends in Early Childhood Education****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Regular Certificate or C.I.

Philosophy, content, facilities, instructional materials, and activities appropriate for children ages 3 to 8 years; current research; issues and trends. Concurrent laboratory experiences.

Summer

College of Community Innovation and Education - School of Teacher Education

EEC 5745 - Child Life: Psychosocial Care of Children in Health Settings**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEC 3700 or C.I.

Course teaches Child Life theory and practice to students wanting to work with children, youth, and their families in hospitals and pediatric health settings.

Odd Spring

College of Community Innovation and Education - School of Teacher Education

EEC 5917 - Directed Research

College of Community Innovation and Education

EEC 5937 - Special Topics

College of Community Innovation and Education

EEC 6216 - Communicative Arts in Early Childhood Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Study of young children's many forms of linguistic pictorial, and three-dimensional expression and communication.

Spring

College of Community Innovation and Education - School of Teacher Education

EEC 6269 - Play Development, Intervention, and Assessment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Explores play development, facilitation, intervention, and assessment.

Even Summer

College of Community Innovation and Education - School of Teacher Education

EEC 6405 - Home-School-Community Interaction in Early Childhood Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Explores the knowledge and skills necessary to form partnerships with families and the community to enhance the care and education of young children.

Fall

College of Community Innovation and Education - School of Teacher Education

EEC 6406 - Guiding and Facilitating Social Competence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Provides students with techniques to facilitate and guide the behavior and emotional growth of young children.

Spring

College of Community Innovation and Education - School of Teacher Education

EEC 6525 - Early Childhood Program Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Organizational and administrative theories as they relate to practice in selected early childhood services.

Occasional

College of Community Innovation and Education - School of Teacher Education

EEC 6606 - Global Issues in Early Childhood

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course is designed to provide our students with global perspectives on early childhood development and engage our students in international research activities.

Fall

College of Community Innovation and Education - School of Teacher Education

EEC 6909 - Research Report

College of Community Innovation and Education

EEC 6918 - Directed Research

College of Community Innovation and Education

EEC 6938 - Special Topics

College of Community Innovation and Education

EEC 6947 - Practicum in Child, Family, and Community Sciences

6 Credit Hours

Class Hours: 1-6

Lab and Field Work Hours: 0

Contact Hours: 1-6

Prerequisite(s): Graduate standing or C.I.

Field-based placement in a social service agency, childcare center, hospital, or school, working with a mentor family liaison to develop skills/ knowledge with diverse families.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

EEC 7055 - Advocacy, Public Policy, and Program Evaluation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

Research-based practice as it relates to child advocacy and changes in public policy.

Spring

College of Community Innovation and Education - School of Teacher Education

EEC 7058 - Theoretical Foundations of Early Childhood

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

Theoretical bases of early childhood, philosophy, and current research in early childhood.

Fall

College of Community Innovation and Education - School of Teacher Education

EEC 7409 - Current Trends in Child, Family, and Community Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

This course examines emerging and current trends in the field of Child, Family, and Community Sciences.

Summer

College of Community Innovation and Education - School of Teacher Education

EEC 7673 - Early Childhood: Professional Publishing and Grant Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

This course examines the aspects of grant writing and writing of professional journals for the field of early childhood.

Fall

College of Community Innovation and Education - School of Teacher Education

EEC 7676 - Critical Analysis of Early Childhood Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

This course examines research, theories, and trends in early childhood and how they influence perspectives related to young children.

Spring

College of Community Innovation and Education - School of Teacher Education

EEC 7945 - Early Childhood: Internship in Teaching and Supervision

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

Examine and practice the various roles of an early childhood college professor focusing on undergraduate teaching and supervision. May be used in the degree program a maximum of 4 times.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

EEC 7948 - Early Childhood: Internship in Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

Examine and practice the various roles of an early childhood college professor focusing on research. May be used in the degree program a maximum of 4 times.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

EEC 7980 - Dissertation

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Student must be in candidacy. Dissertation.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

Education: Elementary

EDE 5917 - Directed Research

College of Community Innovation and Education

EDE 5937 - Special Topics

College of Community Innovation and Education

EDE 6909 - Research Report

College of Community Innovation and Education

EDE 6918 - Directed Research

College of Community Innovation and Education

EDE 6933 - Introductory Seminar in Elementary Education

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to graduate program or C.I.

Overview of the MEd and MA in Elementary Education programs' policies and expectations, and exploration of the teaching profession (professional organizations, accomplished practices, publications, issues and terminology).

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

EDE 6935 - Capstone Seminar in Elementary Education

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): EDE 6933 or C.I.

As a culminating experience, this seminar provides students with the opportunity to synthesize what they have learned throughout their MEd or MA in Elementary Education program.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

EDE 6938 - Special Topics

College of Community Innovation and Education

EDE 7919 - Research

College of Community Innovation and Education

Education: Emotional/Behavior Disorders

EBD 5917 - Directed Research

College of Community Innovation and Education

EBD 6117 - Behavior Disorders in Schools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Basic Teacher Certificate or C.I. Assessment analysis of behavior disorders, cause and effects, identification and theories.

College of Community Innovation and Education - School of Teacher Education

EBD 6909 - Research Report

College of Community Innovation and Education

EBD 6918 - Directed Research

College of Community Innovation and Education

Education: Exceptional Child: Core Compet.

EEX 5051 - Exceptional Children in the Schools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Senior standing or C.I.

Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools.

Fall, Summer

College of Community Innovation and Education - School of Teacher Education

EEX 5702 - Planning Curriculum for Pre-Kindergarten Children with Disabilities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Focus on curriculum planning; developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities.

Spring

College of Community Innovation and Education - School of Teacher Education

EEX 5750 - Communication with Parents and Agencies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 5917 - Directed Research

College of Community Innovation and Education

EEX 5937 - Special Topics in Except Education

College of Community Innovation and Education

EEX 6017 - Typical and Atypical Applied Child Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Focus on the stages and sequence of development and the impact of disabilities and biomedical risk factors on learning and development.

Fall

College of Community Innovation and Education - School of Teacher Education

EEX 6061 - Instructional Strategies Pre-K-6**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A varying exceptionalities strategies (SLD, EH, MH) course using a cross-categorical model. The course is concerned with the pre-k handicapped child through grade 6. A required field experience must be completed with the class depending on prior experience.

Spring

College of Community Innovation and Education - School of Teacher Education

EEX 6065 - Programming for Students with Disabilities at the Secondary Level**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I. and EEX 5051.

Addresses instructional needs of secondary students with disabilities. It provides information on instruction, academic and social-personal skills, and transition planning.

Spring

College of Community Innovation and Education - School of Teacher Education

EEX 6107 - Teaching Spoken and Written Language**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Diagnosis and remediation of spoken and written language problems found in the exceptional populations. Overview of alternative methods of communication.

Fall

College of Community Innovation and Education - School of Teacher Education

EEX 6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course develops advanced instructional and intervention planning and decision-making knowledge and skills using school and classroom-based instructional data in reading and mathematics.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6222 - Observation and Assessment of Young Children

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Study of formal and informal observation and assessment.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6246 - Nature of Autism: Theory and Educational Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Theory and teaching applications for students with autism spectrum disorders includes 20 hour field-based experience. Designed for application towards requirements for State Endorsement in Autism.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

EEX 6295 - Assessment and Curriculum Prescriptions for the Exceptional Population

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Addresses contemporary assessments and models for assessing exceptional children. Also addresses curriculum and prescription.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6297 - Assessment, Diagnosis, and Curriculum Prescriptions for Students with Autism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Contemporary assessments and models for assessing exceptional children to address curriculum and prescription. Specific emphasis is placed on assessment of students with autism spectrum disorders.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

EEX 6342 - Seminar-Critical Issues in Special Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEX 5051.

An examination of research and current literature dealing with some of the critical issues in all areas of special education.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6524 - Organization and Collaboration in Special Ed

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Addresses evaluation, assessment, personnel resource, grant writing, and other administrative issues. Presents collaborative models of intervention and service delivery.

Spring

College of Community Innovation and Education - School of Teacher Education

EEX 6608 - Concepts and Principles in Applied Behavior Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course is designed to develop students' competence in the use of technical terminology pertaining to the concepts and principles of behavior analysis. This course includes content tailored to fulfill the concepts and principles of behavior analysis coursework requirements of the Behavior Analyst Certification Board® (<http://www.bacb.com>) fourth edition task list.

Fall

College of Community Innovation and Education - School of Teacher Education

EEX 6612 - Methods of Behavioral Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Analysis of the principles of behavior management and precision teaching and application of these principles to the solving of classroom management problems.

Fall

College of Community Innovation and Education - School of Teacher Education

EEX 6618 - Single Case Research Methodology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This is an initial course in the use of single subject research methodology. It includes an overview of behavioral measurement, single subject research designs, and methods of data analysis. This course includes content tailored to fulfill the behavior analysis coursework requirements of the Behavior Analyst Certification Board® (<http://www.bacb.com>).

Spring

College of Community Innovation and Education - School of Teacher Education

EEX 6619 - Advanced Behavior Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEX 6612. This course prepares practitioners to use the principles of advanced behavior analysis (ABA) to assess and teach communication skills to individuals with autism and develop knowledge of current augmentative and alternative communication (AAC) technology.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6668 - Radical Behaviorism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course is designed to provide students with a complex understanding of the differences between radical behaviorism and other philosophies, and their impact on science. This course includes content tailored to fulfill the coursework requirements of the Behavior Analyst Certification Board® (<http://www.bacb.com>) fourth edition task list.

Even Spring, Odd Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6669 - Supervision and Personnel Management in Applied Behavior Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prepare students in Behavior Management using Performance-based assessment, performance-based measures, and performance management systems. Course requirements are consistent with Applied Behavior Analysis International for the Verified Course Sequence coursework in Applied Behavior Analysis.

Occasional

College of Community Innovation and Education - School of Teacher Education

EEX 6747 - Ethics and Legal Issues in Applied Behavior Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course is designed to develop students' competence in applying behavior analytic principles in both a legal and ethical manner. This course includes content tailored to fulfill the Ethical and Professional Conduct coursework requirements of the Behavior Analyst Certification Board® (<http://www.bacb.com>), fourth edition task list.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6759 - Transition Planning and Interdisciplinary Teaming for Students with Disabilities**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Interdisciplinary teaming to include available resources, the recognition of the role of parents, teachers, and other professionals; functional community-based curriculum; employability skills; and transition planning.

Fall, Summer

College of Community Innovation and Education - School of Teacher Education

EEX 6863 - Supervised Teaching Practicum with Exceptional Children

2-7 Credit Hours

Class Hours: 12-40

Contact Hours: 12-40

Prerequisite(s): Bachelor's degree, approved program, and C.I.

Supervised observation and teaching of an exceptional student.

Occasional

College of Community Innovation and Education - School of Teacher Education

EEX 6909 - Research Report

College of Community Innovation and Education

EEX 6918 - Directed Research

College of Community Innovation and Education

EEX 6938 - Special Topics in Except Education

College of Community Innovation and Education

EEX 7320 - Program Evaluation and Planning in Special Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Education PhD program.

Focus on evaluation models and summative program evaluations. Students are required to demonstrate knowledge of systemic program planning, models of program funding and program change.

Odd Spring

College of Community Innovation and Education - School of Teacher Education

EEX 7428 - Personnel Preparation: Special Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Education PhD program.

Focus on issues and strategies in preparation of teachers for students with disabilities; course development,

implementation, adaptations/ modifications for pre-service personnel with disabilities.

Spring

College of Community Innovation and Education - School of Teacher Education

EEX 7466 - Universal Design for Learning (UDL): A framework for Exceptional Education Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDS 7501 or equivalent.

Examines learner variability and barriers to effective instruction and assessment. The Universal Design for Learning (UDL) framework is presented as a means to design and implement interventions maximizing the accessibility and learning outcomes of individuals with and without disabilities.

Even Spring

College of Community Innovation and Education - School of Teacher Education

EEX 7527 - Professional Writing Grant Writing in Special Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Education PhD program.

Writing for professional publication in special education; review and edit works of others; grant writing and review for private foundations and state and federal agencies.

Fall, Summer

College of Community Innovation and Education - School of Teacher Education

EEX 7536 - Seminar: Urban Special Education Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Focus on how districts, schools, and communities can improve educational outcomes for children with disabilities and children who are at risk in urban settings.

Summer

College of Community Innovation and Education - School of Teacher Education

EEX 7766 - Technology Research Training in Special Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Education PhD program.

Computer-assisted instruction and technology with special needs populations, demonstrates emerging technologies and provides instruction in personal productivity tools for special educators in higher education.

Even Spring

College of Community Innovation and Education - School of Teacher Education

EEX 7865 - Internship in College Instruction in Special Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Education PhD program.

Supervised experience in design, delivery, and evaluation of a college course in special education or disability services.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

EEX 7866 - Internship in Practicum Supervision in Special Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Education PhD program.

Supervised experience in observing, supervising, and evaluating student teacher performance in a practicum setting in special education or disability services.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

EEX 7919 - Research

College of Community Innovation and Education

EEX 7936 - Current Issues Trends in Special Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD Education program.

Analysis and review of contemporary issues and trends in special education, selecting and; defending a position on

efficacy, legal, ethical, social, and policy issues.

Fall

College of Community Innovation and Education - School of Teacher Education

EEX 7947 - Internship in Special Education Policy and Leadership

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to Exceptional Education track of the Ph.D. in Education or C.I.

Supervised internship experience in policy analysis and application in special education and disability services. May be used in the degree program a maximum of 3 times only when course content is different.

Summer

College of Community Innovation and Education - School of Teacher Education

Education: Foundations and Policy Studies

EDF 5607 - Language, Culture and Pedagogy: Impact and Implications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

C.I. Explores in-depth issues surrounding learning needs of students from linguistically and culturally diverse populations. Research on language, culture and pedagogy will be highlighted.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 5937 - Special Topics

College of Community Innovation and Education

EDF 6141 - Human Intelligence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and a course in learning.

An examination of theory and research on human intelligence and its relation to learning and cognitive performance with emphasis on implications for educational and workplace settings.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6155 - Lifespan Human Development and Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Research in childhood, adolescent, and adult development relevant to contemporary American education. Emphasis on application of theory to educational practice.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6206 - Challenges of Classroom Diversity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, EDF 6886 or C.I.

An examination of factors which shape the curriculum in diverse classrooms with specific attention to learning, assessment and best practices appropriate for minority students.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6216 - Motivation in Learning and Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

An examination of theory and research in learning and performance with an emphasis on practical applications for educational and work place settings.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6935, EDG 6223, and EDF 6472.

Analyses of teaching and curriculum practices to inform design of data-driven assessment that provides evidence of student learning and progress.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6237 - Principles of Learning and Introduction to Classroom Assessment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Students will examine prominent developmental and learning theories in depth and their implications for instruction and assessment. Key issues in educational psychology will be explored.

College of Community Innovation and Education - School of Teacher Education

EDF 6259 - Learning Theories Applied to Leadership in Teaching Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examination and application of theories of learning, leadership, and best practice in teaching that result in evidence of student progress.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6401 - Statistics for Educational Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Design of educational evaluation; analysis of data, descriptive and inferential statistics, interpretation of results.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6432 - Measurement and Evaluation in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Concepts of measurement and evaluation, classroom test construction, creation and use of derived scores, selection and use of published measurement instruments, current issues.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6447 - Development and Validation of Educational Tests and Measures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EDF 6401, EDF 6432. Criterion and norm-referenced test development for educational agencies: specifications, item development and trial, scaling, passing scores, and test norms.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6464 - Mixed Methods for Evaluation in Educational Settings

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 6401 and EDF 6481 or C.I.

This service learning course will examine component and integrated mixed method designs toward developing a proposal for a program evaluation for a local nonprofit organization.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6472 - Data-Driven Decision-Making for Instruction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EDG 6935 and EDG 6223 or admission to K-8 Math and Science MEd. Understand how to design a research study, understand basic measurement principles, collect/analyze data, interpret results, report findings, apply research-to-practice in applied settings.

Fall, Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6481 - Fundamentals of Graduate Research in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Review and critique of research literature, use of library resources for educational research, and introduction to the concepts of research design and data analysis.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6486 - Research Design in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EDF 7403 or C.I. An examination of methodological techniques for specific educational problems. Intended for students in the process of designing independent research studies.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6496 - Teaching and Learning in Urban Settings

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Analysis and discussion of instructional and assessment methods that seek to improve the quality of teaching and learning in urban schools.

Odd Fall, Even Spring

College of Community Innovation and Education - School of Teacher Education

EDF 6517 - Perspectives on Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

A critical analysis of the conceptual and operative educational systems developed in the United States.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

EDF 6635 - Capstone: Action Research in Teacher Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 6472 and EDF 6233.

The Capstone, the final course in the program, is an action research study. The research study focuses on contemporary research in teacher leadership.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6688 - Public Policy and Urban Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Critical analysis of public policy formation, implementation, and evaluation with regard to their impact on urban schools and communities.

Even Fall, Odd Spring

College of Community Innovation and Education - School of Teacher Education

EDF 6725 - Critical Issues in the Study of High Needs Populations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. This course explores issues of social, political, and economic conditions and their impacts on schools and communities serving diverse learners in high needs settings and their families.

Summer

College of Community Innovation and Education - School of Teacher Education

EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Analysis of critical issues in education including social, ethical, legal, and safety concerns which impact the quality of education.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

EDF 6809 - Introduction to Comparative and International Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Surveys the salient issues, perspectives and paradigms of comparative and international education, while introducing students to cross-national comparative research design.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6855 - Equitable Educational Opportunity and Life Chances: A Cross-National Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Analysis of how gender, class, race, ethnicity, and language affect the quality and outputs of schooling, with a focus on multinational organizations and NGO's.

Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6884 - Education as A Cultural Process

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, EDF 6886, or C.I.

An analysis of the theoretical underpinnings of multicultural education with special emphasis on the cultural context of American education for minority groups.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6886 - Multicultural Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A survey of multicultural education; analysis of the relationship between cultural transmission, cultural pluralism, and the learning process within American schools.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6909 - Research Report

College of Community Innovation and Education

EDF 6918 - Directed Research

College of Community Innovation and Education

EDF 6931 - Seminar in Program Evaluation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

This course will synthesize content learned in the other Program Evaluation certificate courses, so that the learner has a comprehensive understanding of how to carry out, interpret, and report the results of educational program evaluations to a variety of stakeholders.

Odd Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 6938 - Special Topics

College of Community Innovation and Education

EDF 7403 - Quantitative Foundations of Educational Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 6401 or C.I.

Examination of appropriate methods in applied educational contexts. Consideration of analysis strategies for educational data, emphasis on identification and interpretation of findings.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7405 - Quantitative Methods II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 7403 and EDF 7463 or C.I.

Correlation, regression, path analysis, and structural equation modeling in educational studies. Use of path analysis and structural equation modeling to test theory.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7406 - Multivariate Statistics in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 7403 and EDF 7463 or C.I.

Statistical methods that simultaneously analyze multiple measurements on an individual or object under investigation.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7407 - Research in Educational Leadership 2

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7101 and EDF 7471.

Focus on the role of statistical analysis in the research process with a focus on a practical application for educational decision makers. The purpose of this course is to familiarize students with basic statistical methods so as to enable one to select appropriate methods and be able to apply them.

Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDF 7408 - Research in Educational Leadership 3

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7215 and EDA 7224.

Research 3 continues the development of respect for the scientific spirit of inquiry and to build upon the problem-solving and research strategies studied in Research 1 and Research 2. The course is intended to enhance students' comfort and confidence with research and statistical tools that will enhance their professional effectiveness.

Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 7403 or comparable doctoral level statistics course.

Application of nonparametric and categorical data analysis procedures to education. Topics: nonparametrics for single samples, paired samples, independent samples, logistic regression, contingency tables, and logit models.
College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7415 - Latent Variable Modeling In Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 7403 or its equivalent at the doctoral level.

This course introduces students to the propriety, fit, parsimony, interpretation and power analysis of latent variable measurement and causal models.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7427 - Psychometrics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 7403, C.I.

Overview of classical test theory with an introduction to item response theory and generalizability theory. Techniques for evaluating validity and reliability will be applied through statistical analyses.

Odd Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7457 - Data, Assessment, and Accountability

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.

Differentiates data from research, emphasizes working with data sets, and guides data use to make ethical decisions and to understand and measure outcomes.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 6401 and EDF 7403 or C.I.

Examination of the major elements involved in planning, conducting, and reporting survey research; emphasis is on the design, instrumentation, data analysis and data; interpretation for survey research.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7468 - Evaluation of Complex Problems of Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.

Emphasizes evaluation of complex problems of practice, review of effective evaluation, and development of knowledge and skills in program evaluation.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7471 - Research in Educational Leadership I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Educational Leadership Ed.D. Executive Track

Students will focus on the types of educational research and the fundamentals of a solid research design with an emphasis on practical applications for educational decision makers.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDF 7473 - Ethnography in Educational Settings

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Doctoral program.

Exploration and integration of theories and practices of naturalistic, field-based studies of educational settings, proceeding from conceptualization, through data collection and analysis, to results presentation.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7474 - Multilevel Data Analysis In Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): EDF 7403 or comparable doctoral level statistics course.
The course will consider the statistical foundations of multilevel linear models, also known as hierarchical linear models (HLMs), and focuses on their application in education and behavioral sciences.
College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7475 - Qualitative Research in Education

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Doctoral Standing or C.I.
Introduction to the philosophical and conceptual basis of qualitative research methods, strategies for gathering, analyzing, and interpreting qualitative data, emerging issues.
Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7476 - Advanced Research Methods

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): EDF 7403, EDF 7463, C.I.
Review/expand knowledge of empirical research in education. Includes systematic literature review, convert conceptual questions to concrete, and multiple analytic methods.
Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7478 - Analysis of Data for Complex Problems of Practice

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.
Qualitative and quantitative methods appropriate for the analysis of data are introduced and used for solving complex problems of practice.
Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EDF 7475 or C.I. Course includes use of video and audio to collect data, two leading data analysis software packages, and requires students demonstrate competencies in lab-based assignments.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7483 - Mixed Methods Research in Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Students are expected to have completed a foundational masters-level research course.

This course provides a doctoral-level introduction to mixed methods research methods and methodology design and its implementation for educational contexts. Mixed methods research combines qualitative and quantitative data collection and analysis. Since the 1990's, this research method has evolved to include specific approaches and terminology beyond those of the individual quantitative and qualitative fields.

Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDF 7488 - Monte Carlo Simulation Research in Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EDF 7403 or C.I. Students are taught how to generate univariate and multivariate data under various parametric conditions for the purpose of exploring the limits of analytical procedures.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7489 - Quantitative Research Synthesis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Equivalent to EDF 6481 and EDF 7403.

This course addresses the problem of the accumulation of evidence in scientific research through the use of quantitative methods for research synthesis and meta-analysis.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7494 - Identifying Complex Problems of Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.

Emphasizes orientation toward identifying complex problems of practice through review of sound research methodology and development of knowledge and skills in program evaluation.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7916 - Analysis and Synthesis of Educational Literature**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Students will learn to find, select, critically analyze, and synthesize educational research and scholarship.

Even Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDF 7919 - Research

College of Community Innovation and Education

EDF 7939 - Special Topics

College of Community Innovation and Education

EDF 7947 - Internship in Methodology, Measurement, and Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 7403, EDF 7463, and C.I.

This course provides practical application of research skills developed through course work. The student will complete/participate in an approved research project.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

Education: General**EDG 5356 - Instructional Coaching**

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course will prepare educators to become instructional coaches, developing skills and methods to impact student achievement by influencing teachers' instructional practices.

Summer

College of Community Innovation and Education - School of Teacher Education

EDG 5745 - Teaching the Non-English Student**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language.

College of Community Innovation and Education - School of Teacher Education

EDG 5917 - Directed Research

College of Community Innovation and Education

EDG 5937 - Special Topics

College of Community Innovation and Education

EDG 5941 - Clinical Practice**2-8 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 11

Contact Hours: 11

Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher.

College of Community Innovation and Education - School of Teacher Education

EDG 6047 - Contemporary Issues in Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

An analysis of current trends in education and their impact on educational programs.

College of Community Innovation and Education - School of Teacher Education

EDG 6223 - Curriculum Theory, Organization, and Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An exploration and examination of foundations and leadership decision-making in curriculum design, development, organization, and policy.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 6224 - Curriculum Policy Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Overview and synthesis of major components of policy involving curriculum. Exploration of the relationship between curriculum policy and curriculum evaluation as parts of analysis.

Odd Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 6285 - Evaluation of School Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

History of program evaluation, systems approaches to program evaluation, concepts of stakeholder and qualitative approaches to program evaluation, the role of evaluator and administrator.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 6329 - Quality Teaching Practices

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Valid teaching certificate.

Focus is on skills and competencies of quality reflective educators. Teaching episodes are videotaped and analyzed against national standards of teaching quality.

Occasional

College of Community Innovation and Education - School of Teacher Education

EDG 6337 - Techniques of Game Use in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Analysis, development, and use of educational games as an approach to classroom teaching.

College of Community Innovation and Education - School of Teacher Education

EDG 6415 - Principles of Instruction and Classroom Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or consent of department chair.

Students are exposed to various methods of delivering instruction, as well as organizational and management skills.

Students microteach and view lessons to develop reflective practices.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

EDG 6636 - Impact of Social Contexts on Teaching and Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EDF 6725. Provides analysis and discussion of instructional and assessment methods that seek to improve the quality of teaching and learning of students/community members in high needs settings. Further, the course is designed to assist students in applying the content of the course to an informed educational practice.

Spring

College of Community Innovation and Education - School of Teacher Education

EDG 6775 - Exploring Global Educational Issues in International Contexts

1-3 Credit Hours

Class Hours: 1-3

Lab and Field Work Hours: 0

Contact Hours: 1-3

Prerequisite(s): Graduate standing.

Guided field experience in global issues challenging the educational community worldwide, from both academic and experiential perspectives. In conjunction with international field experience/study abroad.

Every Semester

College of Community Innovation and Education - Learning Sciences & Educational Research

EDG 6909 - Research Report

College of Community Innovation and Education

EDG 6918 - Directed Research

College of Community Innovation and Education

EDG 6935 - Introductory Seminar in Teacher Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and admitted to Teacher Leadership MED.

Examine current leadership trends in educational contexts and critically analyze the role of collaborative leadership in school improvement.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 6938 - Special Topics

College of Community Innovation and Education

EDG 6940 - Graduate Internship

1-8 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1-8

Contact Hours: 1-8

Prerequisite(s): Approval of student internship office.

Internship in an appropriate educational setting under the direction of a qualified field supervisor and/or a university supervisor. May be repeated for credit.

College of Community Innovation and Education - School of Teacher Education

EDG 7221 - Advanced Curriculum Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6223 or C.I.

An analysis of the research base which supports the various dimensions of the curriculum field.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 7325 - Models of Teaching and Instructional Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6223; EDF 7232 or C.I.

Examination of models of teaching. Focus on the roles of the teacher, applicable contexts and learning goals; historical, philosophical, learning, and research basis.

Even Fall, Even Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 7919 - Dissertation Research

College of Community Innovation and Education

EDG 7947 - Laboratory of Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.

Guided internship: student placement in a leadership setting in a school, social service agency, private or community setting that is involved with learning or development. May be used in the degree program a maximum of 2 times.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 7985 - Proposing and Implementing Data-Driven Decisions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.

Prepares the student for the capstone experience through the development of the capstone proposal and proposal defense.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDG 7987 - Dissertation in Practice

VAR Credit Hours

Class Hours: 1-99

Contact Hours: 1-99

Prerequisite(s): Admission to the Education Ed.D. program/completion of Ed.D. coursework.

Guides the student through the completion of the capstone project experience. May be used in the degree program a maximum of 7 times.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDH 6046 - Diversity in Higher Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Introduction to theory, research, and practice of historical and contemporary diversity issues in American higher education: race, class, gender, and sexuality as they relate to institutional issues, administrators, faculty, and students.

Odd Fall

College of Community Innovation and Education - Department of Educational Leadership & Higher Education

Education: Gifted**EGI 5917 - Directed Research**

College of Community Innovation and Education

EGI 5937 - Special Topics

College of Community Innovation and Education

EGI 6051 - Understanding the Gifted/Talented Student**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of characteristics of the gifted/talented students; theories and research; identification procedures; special problems; educational forces.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EGI 6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course will develop knowledge, skills, and evidenced-based strategies to design curriculum appropriate for the advanced, gifted, and talented learner through a range of services.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EGI 6246 - Education of Special Populations of Gifted Students**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Focuses on needs of gifted subgroups, including females, minorities, handicapped, and students with learning and emotional problems. S.E.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EGI 6247 - Developing Advanced Programs and Services: Acceleration and Enrichment for Academically and Intellectually Gifted Learners**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Servicing and teaching academically gifted learners through content acceleration and enrichment. (Clusters, honors, advanced coursework, at middle and secondary levels; compacted elementary curricula).

Summer

College of Community Innovation and Education - School of Teacher Education

EGI 6305 - Theory and Development of Creativity**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course focuses on the concept of creativity and explores various means of integrating creative strategies and instructional content areas.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EGI 6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Guidance and counseling procedures and strategies for teachers of gifted/talented students, including student group dynamics; communication with parents; career goals; alternative educational opportunities.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EGI 6909 - Research Report

College of Community Innovation and Education

EGI 6918 - Directed Research

College of Community Innovation and Education

EGI 6938 - Special Topics

College of Community Innovation and Education

Education: Higher

EDH 5917 - Directed Research

College of Community Innovation and Education

EDH 5937 - Special Topics

College of Community Innovation and Education

EDH 6045 - First Year College Experience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Focus on critical first year college experience through existing research and practice. Students design a first year experience program within an institution of their choice.

Odd Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6047 - Theories of College Student Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Study of the composition of student populations in American colleges and universities and the theories and factors within the learning environment which support student development.

Odd Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6053 - The Community College in America

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Study of the history, philosophy, goals, and mission of the community college. Functions, policies, practices to satisfy local needs.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6065 - History and Philosophy of Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Early European and American universities, both state and private. Also considers small and private junior and senior colleges.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6067 - International Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examines the variegated nature and activities of international higher education from the perspective of both theory and practice .

Odd Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6081 - Contemporary Issues in Colleges

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Graduate standing or C.I.

Analysis of the critical issues facing colleges today and in the near future.

Odd Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6105 - Retention Strategies in Colleges and Universities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Analyzing educational and political ramifications of college attrition, with focus on variation in retention practices and strategies.

Even Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6204 - Leadership in College Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An analysis of the organizational structure and leadership functions of the college as they relate to instruction and curriculum.

Even Fall, Odd Spring, Even Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6215 - The College Curriculum

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An examination of the background, development, function, and goals of the college curriculum.

Odd Fall, Even Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6305 - Teaching and Learning in Colleges and Universities**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Graduate standing or C.I.

This course focuses on teaching effectiveness in the college and university setting.

Odd Fall, Even Spring, Even Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6407 - Ethical and Legal Issues in Student Personnel**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Studies of ethical and legal issues in College Student Personnel.

Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6505 - Finance in Higher Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of Phase II of Education Professional Preparation or C.I.

Fundamental considerations in the finance of institutions of higher education.

Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6632 - American Professoriate and College Presidency

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Similarities/differences among American professoriate and college presidency in various institutions and academic disciplines. Topics relevant to faculty careers, higher education administration, student affairs, and public policy.

Odd Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6634 - Student Personnel Services in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

A basic introduction to student personnel services which covers philosophy, history, functions, theory, and issues.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6635 - Organization and Administration of Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Major trends and challenges of higher education organization and administration; provides synthesis and integration of historical and contemporary issues of academic governance and leadership from theoretical and practical perspectives.

Even Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6655 - Athletics in the American University

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An examination of the historical and contemporary role of athletics in the American University with explicit focus on the student athlete and student support services of athletes.

Odd Fall

College of Community Innovation and Education - Department of Educational Leadership & Higher Education

EDH 6656 - Academic Success and the Student Athlete

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course will examine the factors related to academic success including issues related to the organization and structure of athletic support services.

Odd Summer

College of Community Innovation and Education - Department of Educational Leadership & Higher Education

EDH 6909 - Research Report

College of Community Innovation and Education

EDH 6918 - Directed Research

College of Community Innovation and Education

EDH 6935 - Capstone Seminar in College Student Personnel

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

A study of current issues in college student personnel with primary emphasis on the role of professionals and the challenges they may encounter.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6938 - Special Topics

College of Community Innovation and Education

EDH 6946 - Internship

VAR Credit Hours

Contact Hours: 0

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 6947 - Practicum in Student Personnel

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EDH 6634. Provides supervised learning experience and opportunities for assessments and evaluation.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7040 - Research on the College Student

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Introduction to theoretical concepts and research findings related to student characteristics, college environments, choice, student development, attrition, persistence, cognitive and affective development, and general outcomes.

Even Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7047 - Diversity in Issues Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Introduction to theory, research, and practice of historical and contemporary diversity issues in American higher education: race, class, gender, and sexuality as they relate to institutional issues, administrators, faculty, and students.

Odd Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

EDH 7066 - Higher Education: Philosophical/Historical Perspectives

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Doctoral standing or C.I. This course examines basic philosophical positions and history of American higher education, historical research methods, and related applications: developing educational philosophy and historical research skills.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7207 - Curriculum, Instruction, and Distance Learning in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Doctoral standing or C.I. Curriculum, Instruction, and Distance Learning in Higher Education examines curriculum and instructional methodologies and ways that distant learning can be used to improve student learning outcomes.

Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7208 - International Perspectives of Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Doctoral standing or C.I. To increase understanding of global perspectives, this course explores worldwide tertiary education systems, related collaborations, issues and trends, and the impact of politics, economics, and cultures.

Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7366 - Assessment Practices in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Prepares higher education leaders with necessary knowledge, understanding, and skills to create and conduct effective assessment programs and activities.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7401 - Higher Education and Public Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Course examines development and analysis of US Higher Education policy issues, socio-political contexts at play in policy processes, and how competing policy agendas are negotiated.

Odd Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7405 - Legal Issues in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Addresses legal framework of public and private institutions of higher education with emphasis on case law related to organization, governance, faculty, students, curriculum, and environment. Exploration of key laws and legal concepts applicable to American institutions of higher education, including how to weigh and balance competing rights and responsibilities of institutions, faculty, staff, and students.

Even Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7508 - Finance in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Doctoral standing or C.I. This course is designed to provide students with fundamental considerations, research, theory and practice regarding the funding of higher education institutions.

Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7631 - Managing change, conflict, and stability in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Course introduces and defines nature of change, and reviews theories of transformation in higher education; investigates various higher education change models and practical change strategies.

Odd Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7636 - Organizational Theory and Practices in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Doctoral standing or C.I. Explores theories and models of organizations and their applicability to colleges and universities and the work done in them.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7638 - Advanced Seminar in Higher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Course explores "the enduring enigmas" in Higher Education, those long-contested controversies forging the patterns and traditions of our colleges and universities.

Even Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7665 - Higher Education Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Doctoral standing or C.I. To increase understanding of research, theories, models and issues related to higher education leadership including administration, college presidency, and faculty roles.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7919 - Research

College of Community Innovation and Education

EDH 7934 - Higher Ed Literature, Research, and Professional Writing Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Provides students with research strategies and writing skills for dissertation preparation, journal writing, publication and reviewing, and conference presentation skills.

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDH 7980 - Dissertation

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Doctoral standing.

Dissertation credits course for Higher Ed doctoral students.

Even Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

Education: Mental Retardation**EMR 5917 - Directed Research**

College of Community Innovation and Education

EMR 5937 - Special Topics

College of Community Innovation and Education

EMR 6235 - Nature of Severe and Profound Disabilities: Theory and Educational Practice**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Overview of theory and teaching applications for students with severe and profound disabilities including major theories and trends, appropriate learning goals, teaching approaches, and environmental arrangements.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

EMR 6909 - Research Report

College of Community Innovation and Education

EMR 6918 - Directed Research

College of Community Innovation and Education

EMR 6938 - Special Topics

College of Community Innovation and Education

Education: Middle School

EDM 5917 - Directed Research

College of Community Innovation and Education

EDM 5937 - Special Topics

College of Community Innovation and Education

EDM 6909 - Research Report

College of Community Innovation and Education

EDM 6918 - Directed Research

College of Community Innovation and Education

EDM 6938 - Special Topics

College of Community Innovation and Education

Education: Secondary

ESE 5214 - Secondary School Curriculum Improvement I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Regular Certificate or C.I. Secondary School self studies for curriculum projects, accreditation reports, or staff development.

College of Community Innovation and Education - School of Teacher Education

ESE 5344 - Managing the Secondary Classroom

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate Standing or C.I. Strategies, methods, materials, and technologies for managing the secondary classroom. Creating positive classroom environments, maintaining/increasing appropriate behaviors, and teaching behavior appropriate to all students.

Fall

College of Community Innovation and Education - School of Teacher Education

ESE 5917 - Directed Research

College of Community Innovation and Education

ESE 6036 - Contemporary Issues in Secondary Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate Standing or C.I. Examination of contemporary issues in secondary education at the local and national levels. Students will identify, define, and analyze important problems facing secondary schools.

Spring

College of Community Innovation and Education - School of Teacher Education

ESE 6217 - Curriculum Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Goal analysis, task analysis, needs assessment, and writing performance objectives for developing courses of study.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

ESE 6256 - Critical Issues in Secondary Education

1-3 Credit Hours

Class Hours: 1-3

Lab and Field Work Hours: 0

Contact Hours: 1-3

Prerequisite(s): EDG 6415 Corequisite(s): Graduate Internship.

Examination of critical issues in secondary education including topics such as classroom and behavior management, technology, and current issues.

Odd Spring, Even Spring

College of Community Innovation and Education - School of Teacher Education

ESE 6416 - Curriculum Evaluation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESE 6217 or an equivalent curriculum course.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

ESE 6427 - Capstone: Action Research in Secondary Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ESE 5XXX Managing Secondary Classroom, EDF 6472, ESE 6XXX (Contemporary Issues in Secondary Education), EME 6602, LAE 5496. Capstone course for Secondary Education MEd. Engage in action research analyzing an issue or challenge in their own classroom practice.

Fall

College of Community Innovation and Education - School of Teacher Education

ESE 6909 - Research Report

College of Community Innovation and Education

ESE 6918 - Directed Research

College of Community Innovation and Education

ESE 6935 - Introductory Seminar in Secondary Education

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to graduate program or C.I.

Overview of Master of Teaching policies and expectations, and exploration on the teaching profession in terms of professional organizations, accomplished practices, publications, issues, and terminology.

Occasional

College of Community Innovation and Education - School of Teacher Education

ESE 6936 - Capstone Seminar in Secondary Education

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): ESE 6935 or C.I.

As a culminating experience, this seminar provides students with the opportunity to synthesize what they have learned throughout their Master of Arts in Teaching program through completion of a portfolio and reflective analysis of learning.

Occasional

College of Community Innovation and Education - School of Teacher Education

ESE 6938 - Special Topics

College of Community Innovation and Education

Education: Specific Learning Disabilities

ELD 5917 - Directed Research

College of Community Innovation and Education

ELD 5937 - Special Topics

College of Community Innovation and Education

ELD 6909 - Research Report

College of Community Innovation and Education

ELD 6918 - Directed Research

College of Community Innovation and Education

ELD 6938 - Special Topics

College of Community Innovation and Education

Education: Technology and Media

EME 5050 - Fundamentals of Technology for Educators

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Post bac or C.I.

Designed to provide participants with an introduction to the field of educational technology content with emphasis on using and integrating technology in K-12 to improve the teaching and learning process.

Fall, Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 5053 - Electronic Resources for Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 5937 - Special Topics

College of Community Innovation and Education

EME 6053 - Teaching and Learning with Emerging Technologies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Study and application of traditional and emerging technological applications available for education including techniques for locating, evaluating, and integrating them into the classroom.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6055 - Current Trends in Instructional Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Survey of current trends and issues of importance to the field of instructional technology.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6062 - Research in Instructional Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 6481 Prerequisite(s) or Corequisite(s): EME 6055 or EME 6613.

Critical review and evaluation of landmark research in the areas of educational media, instructional design, and instructional systems.

Odd Spring, Even Spring, Odd Summer, Even Summer

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6209 - Multimedia Instructional Systems II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6507 and EME 6613.

Advanced techniques in delivery and management of web-based multimedia instructional content. Integration of media into web-based instruction. Discussion of delivery and management issues.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6226 - Instructional Development and Evaluation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6613 - Instructional System Design.

The course addresses basic instructional development skills and formative and summative evaluation methods for training in business and industry with application to training educational settings.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6405 - Adapting and Integrating Innovative Technologies in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6053 or C.I.

Use of traditional and emerging technological applications in instructional settings by students and teachers. Includes integrated software packages, multimedia productivity suites, Web 2.0 applications, and desktop publishing, as they relate to K-12 curriculum, students, and teacher productivity.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6417 - Interactive Online and Virtual Teaching Environments

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6507.

Explores issues and trends in educational and human to computer interactions theories as applied to virtual and online

participatory learning environments.

Odd Fall, Even Fall

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6457 - Distance Education: Technology Process Product

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6507.

Instruction and how it is delivered at a distance. Examines technologies, processes, and products of distance education with emphasis on e-learning.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6458 - Virtual Teaching and the Digital Educator

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6417.

Explores practical applications of instructional theories related to virtual and online participatory learning environments.

Odd Spring, Even Spring

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6465 - Intelligent Tutoring System Design: Theory and Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Authoring adaptive instructional elements, analyzing learner data, classifying/predicting learner states, and evaluating the effectiveness of ITSs and their components.

College of Graduate Studies - School of Modeling, Simulation and Training

EME 6507 - Multimedia for Education and Training

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Emphasis on the elements and applications of multimedia and technology in multiple instructional settings. Includes authoring, design, alternative delivery systems, hardware, and software.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6601 - Instructional Simulation Design for Training and Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6613.

Integration of ISD methods with simulation systems design, including analysis, design, development and formative evaluation of leading-edge training and educational simulation technologies.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6602 - Integration of Technology into the Learning Environments

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6053, EME 6405, EME 6507 or C.I.

Resources, materials, and strategies for systemic achievement of curriculum goals; investigation of innovative and effective technological advances and practices for use in teaching and learning.

Odd Fall, Even Fall

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6607 - Planned Change in Instructional Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

In-depth study of the processes of planned change and adoption/rejection of innovations in educational settings.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6613 - Instructional System Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course focuses on the systematic analysis and design of instruction, including task, learner, and context analyses, objectives and learner assessments, media selection, flowcharting and storyboarding.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6614 - Instructional Game Design for Training and Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6613.

Integration of instructional design and game development processes, analysis of existing instructional games and game engines and the design of an instructional game.

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6646 - Instructional Game Design for Training and Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I. for students not in the Instructional Design and Technology program.

The course examines the application of cognitive neuroscience research and physiological explanations of human learning and for designing training and educational systems.

Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6705 - Administration of Instructional Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6613.

Provides opportunities for students to examine parameters, problems, and areas of importance in the management of instructional systems.

Odd Fall, Even Fall

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6909 - Research Report

College of Community Innovation and Education

EME 6918 - Directed Research

College of Community Innovation and Education

EME 6938 - ST: Metacognition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

The goal of this graduate seminar is to critically examine contemporary interdisciplinary research in the area of metacognition.

Spring

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 6938 - ST: Research on Advanced Learning Technologies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Research reveals that students often face challenges engaging ineffective processes for successful learning, leading to the development of advanced learning technologies (ALTs), which aim to foster the use of effective problem solving, metacognitive monitoring, decision making during learning. There are multiple types of data that can be used for assessing how students learn with these ALTs. However, some data channels may not capture all the processes a learner uses. Thus, using a combination of data channels will provide more detailed information about how learners are progressing through a task they are given. Depending on the context and research goals, some data channels will be more appropriate than others.

The goal of this graduate seminar is to explore and critically examine theoretical, methodological, and analytical approaches for using multimodal data to assess learning with advanced learning technologies. This will include: (1) reading key publications in the fields of learning sciences, self-regulated learning, affective computing, and computer science and generating thought-provoking questions; (2) integrating key challenges in the literature and leading class discussions to examine these challenges (3) selecting the most appropriate data channels to investigate learning processes ; (4) understanding the types of variables data channels can generate; and (5) presenting an idea for developing a new advanced learning technology.

In this seminar, we will address how we can use multimodal data to examine learning processes, how advanced learning technologies can be developed to foster the use of these processes, and how studies have been conducted to examine learning and performance with these different types of advanced learning technologies. The course outcomes align with the 5 goals of the seminar outlined above. Specifically, you will be able to:

1. Read and critique academic papers in various disciplines
2. Run stimulating class discussions about key issues in learning sciences
3. Understand, apply, and critique the use of multimodal data
4. Propose how to best use different types of data for assessing learning with an ALT
5. Generate ideas for developing a new advanced learning technology

EME 6938 - ST: Story Design for Instruction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): EME 6507.

The course considers story as an instructional approach for knowledge transfer to meet learning outcomes through instructional design. Stories can enhance instruction, training, and communication.

N *Spring*

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6938 - Theoretical Foundations of the Learning Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Research reveals that students often face challenges engaging in effective processes for successful learning, leading to the development of advanced learning technologies (ALTs), which aim to foster the use of effective problem solving, metacognitive monitoring, decision making during learning. There are multiple types of data that can be used for assessing how students learn with these ALTs. However, some data channels may not capture all processes a learner uses. Thus, using a combination of data channels will provide more detailed information about how learners are progressing through a task they are given. Depending on the context and research goals, some data channels will be more appropriate than others.

The goal of this graduate seminar is to explore and critically examine theoretical, methodological, and analytical approaches for using multimodal data to assess learning with advanced learning technologies. This will include: (1) reading key publications in the fields of learning sciences, self-regulated learning, affective computing, and computer science and generating thought-provoking questions; (2) integrating key challenges in the literature and leading class discussions to examine these challenges (3) selecting the most appropriate data channels to investigate learning processes ; (4) understanding the types of variables data channels can generate; and (5) presenting an idea for developing a new advanced learning technology.

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1. Read and critique academic papers in various disciplines
2. Run stimulating class discussions about key issues in learning sciences
3. Understand, apply, and critique the use of multimodal data
4. Propose how to best use different types of data for assessing learning with an ALT
5. Generate ideas for developing a new advanced learning technology

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 6940 - Theory into Practice in Educational Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of all core courses in educational technology.
Practicum in facilitating the utilization of instructional media and information technologies.
Odd Summer, Even Summer

College of Community Innovation and Education - Learning Sciences & Educational Research

EME 7634 - Advanced Instructional Systems Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6613.

Analysis of fundamental concepts of theoretical and procedural instructional systems design models with an emphasis on their cognitive origins, pedagogical bases, current and future values.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EME 7919 - Research

College of Community Innovation and Education

EME 7942 - Doctoral Internship in Educational Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of PhD core and 75 percent specialization.

Higher education teaching assignment as an intern under a senior faculty mentor in Educational Technology or Instructional Systems.

Occasional

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

Educational Administration

EDA 5917 - Directed Research

College of Community Innovation and Education

EDA 5937 - Special Topics

College of Community Innovation and Education

EDA 6061 - Organization and Administration of Schools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Introduction to and overview of educational administration including governance, finance communications and information management, personnel evaluation.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6062 - Leadership in Educational Organizations**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Educational Leadership

This course addresses leadership, organization, and administrative knowledge and skills needed by leaders, directors, and management.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6228 - Human Resource Processes in Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Educational Leadership.

Addressed will be human capital recruitment, development, retention, and evaluation are critical to all education organizations.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6232 - Legal Aspects of School Operation**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Study of state and federal laws affecting the operation of public schools emphasizing individual rights and responsibilities of students, faculty, and administrators.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6234 - Personnel and Education Related Law

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Educational Leadership.

This course includes up to date national laws, legal cases, and federal policies related to personnel, students, and education organizations.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6240 - Educational Financial Affairs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Theoretical and practical approaches to managing school business affairs at central office and individual school levels.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6246 - Basic Education Funding and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Educational Leadership.

This course addresses general funding sources, management, constraints, and ethical concerns within and beyond Florida for private, charter, for profit, not for profit, and other education organizations.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6260 - Educational Systems Planning and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Application of current educational management and behavioral theory for systems approaches in schools and educational facilities.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6275 - Digital Leadership and Systems Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Educational Leadership.

Addressed in this course are leadership for learning, teaching, data analysis, communication, and decision making across geographic boundaries.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6300 - Community School Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

The relationships between the school and the community with special emphasis on community needs and the development of a total community school program.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6303 - Organizations and the Community

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Educational Leadership.

Addressed will be how community engagement of stakeholder groups is contextual and varies beyond Florida and outside of public education. Assumptions regarding stakeholder groups will be challenged from a social justice perspective.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6423 - Data-Based Decision Making for School Educational Leaders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Purpose is to understand and use concepts from research, measurement, and assessment to make informed and reasoned decisions.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6502 - Organization and Administration of Instructional Programs**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Study of school organization, administration, and management with emphasis toward organizational theory, leadership, evaluation, and change and improvement strategies.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6909 - Research Report

College of Community Innovation and Education

EDA 6918 - Directed Research

College of Community Innovation and Education

EDA 6931 - Contemporary Issues in Educational Leadership**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A capstone course intended to stimulate inspection, analysis, and dialogue regarding contemporary issues and tensions facing educational leaders and educational systems.

Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6932 - Issues in Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MA in Educational Leadership.

Addressed will be issues in international, for profit, private, charter, public, virtual, and other emerging educational contexts and their unique concerns.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6938 - Special Topics

College of Community Innovation and Education

EDA 6939 - Seminar in Educational Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Discussion of problems in school administration, patterns of curriculum organization, and research projects. May be used in the degree program a maximum of 4 times.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 6946 - Internship

VAR Credit Hours

Class Hours: 1-6

Contact Hours: 1-6

Prerequisite(s): C.I. Normally, the Educational Leadership internship is completed during the latter part of the degree program.

Application must be made in semester prior to internship through the student's adviser. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7101 - Organizational Theory in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Educational Leadership Ed.D. Executive track, Educational Leadership Ed.S., or Curriculum and Instruction Ed.D.

In this course, students will engage with relevant theoretical and empirical literatures regarding organizations, change, and leadership AND apply those literatures to issues of professional practice within their current professional settings,

and their own proposed empirical work.

Fall, Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7192 - Educational Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7101 and EDF 7471.

An analysis of the interactive process and functioning of groups; development of skills essential for effective educational leadership; and the change process.

Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7193 - Instructional Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7192 and EDF 7407.

Study and analysis of research on leadership resulting in improved student achievement at the local, state, and national levels is the focus of this course.

Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7195 - Politics, Governance, and Financing of Educational Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7215 and EDA 7224.

The study of policy development as a political process; governance issues; and financial issues in education.

Spring

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7196 - Leadership in a Learning Organization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.

This course emphasizes contemporary leadership theory as it applies to a learning organization; i.e., human resources, district department leadership, military, higher education or business.

Occasional

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7205 - Planning, Research, and Evaluation Systems in Educational Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7193 and EDA 7408.

The study of research and evaluation methodologies, system theory, and planning and design strategies in educational administration.

Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7215 - Community Outreach for Educational Leaders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7225 and EDA 7193.

The course focus will be on developing understandings of the essential relationships between schools and community organizations and the community organizations with themselves.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7224 - Human Resource Development in Educational Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7225 and EDA 7193.

The purpose of this course is to provide understanding of the functions of recruiting, selecting, placing, evaluating, and compensating people.

Fall

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7225 - Advanced Legal Studies in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDA 7192 and EDF 7407.

In-depth study of current legal issues confronting educational leaders and their private sector counterparts.

Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7919 - Dissertation Research

College of Community Innovation and Education

EDA 7943 - Field Project in Educational Leadership**3-6 Credit Hours**

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Admission to doctoral candidacy in the Educational Leadership Ed.D. Executive track or program consent.

Field experience and projects for advanced graduate students. Participation in school plant surveys, accreditation visitation, curriculum studies, administrative analysis, and field research. May be used in the degree program a maximum of 5 times.

Fall, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

EDA 7987 - Dissertation in Practice**1-6 Credit Hours**

Class Hours: 1-6

Lab and Field Work Hours: 0

Contact Hours: 1-6

Prerequisite(s): Admission to the EdD in Educational Leadership--Executive Track/completion of EdD coursework.

The dissertation in practice is the capstone experience during which doctoral students conduct scholarly research on a complex problem of practice in an education organization.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Educational Leadership and Higher Education

Educational Psychology**EDP 5917 - Directed Research**

College of Community Innovation and Education

EDP 5937 - Special Topics

College of Community Innovation and Education

EDP 6213 - Seminar in Applied Learning and Instruction I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An overview of contemporary theories and research related to human learning and instruction with a focus on affective and motivational issues surrounding learning and instruction.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDP 6217 - Seminar in Applied Learning and Instruction II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDP 6213 or C.I.

An overview of contemporary theories and research in human learning and instruction. Emphasis on cognition, critical thinking, problem-solving, individual differences, and assessment of learning outcomes.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDP 6909 - Research Report

College of Community Innovation and Education

EDP 6918 - Directed Research

College of Community Innovation and Education

EDP 6936 - Capstone in Applied Learning and Instruction

1-6 Credit Hours

Class Hours: 1-6

Contact Hours: 1-6

Prerequisite(s): EDP 6213, EDP 6217, EDF 6216, or C.I.

Students use critical thinking and written communication skills to integrate and apply material learned in courses in learning, instruction, and motivation. Graded S/U. Variable credit, 1-6. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

EDP 7517 - Facilitating Learning, Development and Motivation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Education Ed.D. program.

Emphasizes using theory and research in learning, development, and motivation to diagnose and solve learning and motivational problems in diverse educational environments.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

Engineering Science

EGM 6653 - Theory of Elasticity and Plasticity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5237.

Review of stress and strain; solution by tensor stress and potential functions; linear and nonlinear elasticity; constitutive models; for elastic-(visco)plastic solids.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

Engineering: Computer Math

ECM 5917 - Directed Research

College of Engineering and Computer Science

ECM 5937 - Special Topics

College of Engineering and Computer Science

ECM 6308 - Current Topics in Parallel Processing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Research topics in parallel architectures, including, but not limited to, systolic architectures, wavefront arrays, interconnection networks, reconfigurable architectures and fast algorithms. May be used in the degree program a maximum of 2 times.

Even Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

ECM 6909 - Research Report

College of Engineering and Computer Science

ECM 6918 - Directed Research

College of Engineering and Computer Science

ECM 6938 - Special Topics

College of Engineering and Computer Science

Engineering: Electrical

EEL 5173 - Linear Systems Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3657.

Models and properties of linear systems, transformation, controllability and observability, control and observer designs, MFD, and realization theory.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5185 - System Identification

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3657 or C.I.

Dynamic systems, models of time-invariant linear, time-varying and nonlinear systems, nonparametric frequency- and time-domain identification methods, kernel expansion techniques, parameter estimation methods, experiment design, and applications.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5245 - Power Electronics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 4309C.

Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cyclo-converters, applications.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5255 - Advanced Power Systems Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4216 or C.I.

This is an advanced course in power systems engineering, designed to provide a student with the knowledge of steady-state analysis in power system operation.

Even Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5268 - Communications and Networking for Smart Grid

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 4515C. Introduction to smart grid communication infrastructure, communication technologies in smart grid, communication networking in smart grid, communication for vehicle-to-grid systems, secure communication and networking.

Occasional

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

EEL 5291 - Distributed Control and Optimization for Smart Grid

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 3657 and EEL 4216 or C.I. Electric power systems, transmission and distribution networks, voltage stability and VAR control, dispatch of distributed generation, optimization, frequency control, electricity markets and incentive controls.

Odd Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5296 - Advanced Microgrid Design and Operation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4216.

Advanced course to power systems engineering, designed to provide students with the knowledge of microgrid system fundamentals, design, and operation.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5297 - Introduction to Smart Grid

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): (EEE 3307C and EEL 3657) or EEL 4216 or C.I.

Fundamentals of electric power systems, distributed generation and smart grid components, voltage control and VAR compensation, demand response, leader-follower optimization, resiliency.

Odd Spring, Even Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5432 - Satellite Remote Sensing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3470 or PHY 4324.

Fundamentals of satellite remote sensing, orbits and geometry, radiative transfer theory, microwave and infrared sensing techniques, ocean, ice and atmosphere geophysical measurements.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5437C - Microwave Engineering

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): EEL 3470 or C.I.

Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements.

Material and Supply Fee: \$40.00 *Fall*

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5439C - RF and Microwave Active Circuits

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): EEL 4436C or EEL 5437C or equivalent.

Transmission line, microwave network theory, impedance matching, noise, power gain amplifier, low noise amplifier, power amplifier, oscillator, mixer and microwave communication system.

Material and Supply Fee: \$40.00 *Spring*

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5462 - Antenna Analysis and Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3470 or equivalent.

Fundamentals of antennas; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5582 - Fundamentals of Wireless Communications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4515C and EEL 3021 Introduction to Randomness.

Large and small scale radio propagation effects, performance of digital modulation over wireless channels, capacity analysis of wireless channels, signal processing techniques to mitigate fading effects and improve performance of wireless systems (diversity techniques, adaptive modulation, multiple antenna and MIMO systems).

Even Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5625 - Applied Control Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

C.I. Designed to develop basic understanding of advanced control methods for nonlinear systems described by ordinary and partial differential equations and to expose recent results and ongoing research issues in the area of MEMS.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EEL 5630 - Digital Control Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3657.

Real-time digital control system analysis and design, Z-transforms, sampling and reconstruction, time and frequency response, stability analysis, digital controller design.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5659 - Introduction to Sensors**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3123C.

Basics of measurements, physics of energy transduction, sensor specifications (range, sensitivity, accuracy, repeatability, noise), applications, basics of signal conditioning.

Even Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5669 - Introduction to Robotics and Autonomous Vehicles**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5173 or C.I.

Forward and inverse kinematics, velocity kinematics, dynamics, constrained motions, path and trajectory planning, position and trajectory control, single and multivariable control, introduction to force/impedance control, introduction to consensus-based control.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5690 - Medical Robotics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

EEL 3657 or Medical students in their second year or later.

Medical robots for minimally invasive surgery, kinematics, constrained workspace and dexterity, haptics, tele-operation and network based control, basics of laparoscopic surgery.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5706 - Resilient Computer System Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 4768 or CDA 5106 or EEL 5708, or C.I. Advanced concepts in hardware/software fault tolerance: fault models, coding in computer systems, module and system level fault detection mechanisms, such as TMR, rollback, and recovery.

Occasional

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

EEL 5722C - Field-Programmable Gate Array (FPGA) Design

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): EEE 3342C with a "C" (2.0) or better grade.

FPGA architectures, design flow, technology mapping, placement, routing, reconfigurable computing applications, and evolvable hardware.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5780 - Wireless Networks

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4781 or C.I.

The wireless networking topics include: cellular networks, multiple access protocols, channel assignment and resource allocation, mobility and location management, handoffs, routing, authentication, call admission control and QoS provisioning, network layer issues, wireless data networking (WAP, GSM, GPRS, CDMA, WCDMA.).

Even Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5789 - Software-Defined Networking

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4781.

Fundamentals of software-defined networking (SDN). Control, data, and management plane separation. Northbound and southbound APIs. Network function virtualization (NFV), network orchestration, service chaining. SDN and NFV protocols and controllers such as OpenFlow, OpenDaylight, Floodlight, and Open Network Operating System (ONOS).

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5796 - Big Data Computer Architecture and Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 4768 or CGS 3763 or C.I. Computer hardware architecture and operating systems design, implementation and administrative techniques for big data computing platforms which run applications to analyze datasets of massive size and dimensionality.

Even Fall, Odd Spring

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

EEL 5820 - Image Processing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 2302, EEL 4750 or C.I.

Two-dimensional signal processing techniques; pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques.

Odd Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5825 - Pattern Recognition and Learning from Big Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3021 or EEL 5542

Preliminaries of pattern recognition, Bayesian Decision Theory, linear discriminant functions, Neural Network approaches, decision tree classifiers, unsupervised learning and clustering, non-parametric techniques, and other topics reflecting the state-of-the art.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5860 - Software Requirements Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Excellent oral and written communication skills. Excellent problem solving skills. In-depth study of software requirements engineering within a process centered framework. Methods for requirements elicitation, analysis, description, and validation. Formal and informal specification.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5862 - Real-Time Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4600 or EEL 4768 or EEL 4742C.

Introduction to specification, analysis, design, and validation techniques for real-time (operating) systems with an emphasis on real-time scheduling theory.

Odd Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5874 - Expert Systems and Knowledge Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4872 or CAP 4630 C.I.

Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5917 - Directed Research

College of Engineering and Computer Science

EEL 5937 - Attacks and Defenses in Secure Architectures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4768.

The course will bring students insights on the cutting-edge research in processor security with the understanding of the interactions between software and the underlying hardware.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5937 - Future Computing Systems for Emerging Workloads

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Introduction to future computing systems based on emerging technology and its application to emerging workloads as artificial intelligence and big data.

N Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5937 - Introduction to Electronic Design Automation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Introduction to electronic design automation (EDA) for the synthesis of circuits based on transistor and memristor technology with a focus on algorithms and data structures.

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5937 - Power System Dynamics and Stability

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4216

This is an advanced course to power systems engineering designed to provide students with the knowledge of power system dynamics and stability.

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5937 - Real-Time Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4600 or EEL 4768 or EEL 4742C.

Introduction to specification, analysis, design, and validation techniques for real-time (operating) systems with an emphasis on real-time scheduling theory.

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5937 - Special Topics

College of Engineering and Computer Science

EEL 6026 - Optimization of Engineering Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

A unified treatment of optimization methods often used to solve problems in engineering and applied sciences. Software packages are used when appropriate.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6208 - Advanced Machines**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4205.

Theory of electric machines using reference frame transformations: Basic principles of dc and ac machines, including induction and synchronous, are included. Simulation techniques for steady state and dynamic performance analysis will be used to analyze operation of electric machines with solid state drives.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6246 - Power Electronics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5245.

Advanced topics in power electronics, soft-switching techniques, small-signal modeling of PWM and resonant converters, control techniques, power factor correction circuits.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6251 - Power System Optimization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5255.

This is an advanced course to power systems engineering designed to provide students with the knowledge of optimization technologies and their applications in power systems.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6253 - Power System Resilience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5255.

This is an advanced course to power systems engineering, designed to provide students with the knowledge of power system resilience.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6254 - Power Systems Reliability

3 Credit Hours

Class Hours: 3

Contact Hours: 3

Prerequisite(s): EEL 4216

Advanced course to power systems engineering, designed to provide a student with a comprehensive understanding of quantitative reliability evaluation of modern power systems.

Even Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6257 - Data Analytics in Energy Systems

3 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): EEL 5255 or equivalent with a grade "C" or above, or C.I.

Graduate level course. Introductions of data analytical methods for power system applications. Topics include energy forecasting, state estimation, demand response, load disaggregation, asset management, power system cybersecurity, grid-interactive buildings, and solar energy.

Odd Spring, Even Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6269 - Advanced Topics in Power Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 6255.

A current topic will be discussed such as power system transients, system protection, TandD, and dielectric engineering.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6272 - Smart Power Grids Protection

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 4216 or C.I. Different aspects of protection of smart grids. Provides a comprehensive understanding of protection of modern power systems including protection of renewable energies and protection of automated power systems.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6278 - Attacks and Defenses in Secure Cyber-Physical Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4294 or equivalent or C.I.

This is an advanced course designed to provide students with the knowledge of security challenges for cyber-physical systems and approaches to enhance their security.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6361 - Emerging Device Computing Architectures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

CDA 5106 or EEL 5708 or C.I. Post-CMOS logic devices. Spintronic logic and memory systems. Memristor-based processing elements. Logic-In-Memory and non-Boolean computing approaches. System design and performance assessment, and applications.

Occasional

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

EEL 6364 - Neuromorphic Computing Architecture, Circuit and Device

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 5825 or EEE 5390 or C.I. Advanced concepts in neuromorphic computing architectures and its hardware implementations using nano-scale emerging spin-transfer torque and memristor devices.

Fall

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

EEL 6425C - RF and Microwave Measurement Techniques

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): EEL 4436C or EEL 6482 or EEL 5439C or C.I.

RF and Microwave components in wireless systems; i.e., antennas, passive components, active circuits, as well as noise, modulation are characterized by measurement and designed/verified by EM/circuit software.

Material and Supply Fee: \$40.00 *Fall*

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6481 - Numerical Techniques in Electromagnetics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 6488 or C.I.

Applications of finite difference methods (FDTD), finite element method, integral equation method (method of moments) to electromagnetics.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6482 - Electromagnetic Theory I**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5439C or C.I.

Maxwell's equations, boundary conditions, propagation and reflection, electromagnetic theorems and principles, guided waves and scattering.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6489 - Advanced Topics in Electromagnetics and Microwaves**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Advanced and current topics in EM fields, antennas, and microwaves.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6504 - Communications Systems Design**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 6530.

Information and coding theory. Modem design. Binary and M-ary modulations. Intersymbol interference and pulse shaping. DS and FS spread-spectrum systems.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6530 - Communication Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 5542 or C.I.

Communication in the presence of noise; analog and pulse modulation; use of phase-locked loops, synthesizers, VCOs, system implementations.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6532 - Information Theory and Coding

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 5542 or C.I.

Concepts regarding information: Covers entropy, channel capacity, Shannon's theorems, Fano's inequality, coding theory, linear, Hamming, and cyclic codes, Hamming, Singleton, Gilbert-Varshamov, and Plotkin Bounds.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6537 - Detection and Estimation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEE 5542. Use of hypothesis testing (Bayes, Minimax, Neyman-Pearson) and estimation theory (Bayes, Maximum-likelihood) for detecting or estimating signals in noise. Application in communications and radar.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6590 - Advanced Topics in Communications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Advanced and current topics in communications, such as coding theory, information theory, spread spectrum, etc.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6616 - Adaptive Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5173.

System identification and adaptive control design, including identification algorithms, MRAC, STR, and stochastic adaptive control. Lyapunov stability and input-output stability.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6618 - Probabilistic Methods for Neural Coding and Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 5542 and EEL 5173, both with a C or better or C.I.

This course provides an overview of advanced, state-of-the-art probabilistic methods used in the encoding/decoding of neural signals and control of neural systems.

Odd Fall, Even Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6619 - Nonlinear Robust Control and Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5173 and EEL 6621.

Stability, performance and robustness of nonlinear systems with uncertainties, Lyapunov-based designs, recursive designs and nonlinear optimal designs.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6621 - Nonlinear Control Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5173.

Phase plane descriptions of nonlinear phenomena, limit cycles, jump conditions, stability, describing functions, Liapunov and Popov theory, time and frequency domain analysis for nonlinear systems.

Even Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6662 - Advanced Robotics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5559 or C.I.

Geometric Nonlinear Control, Control of Redundant Robots, Computer Vision and Vision-based control, Formation Control, and Cooperative Rules and Behaviors of Robotic Vehicles.

Odd Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6667 - Mobile Robotic Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

EEL 5173 or EEL 5630.

Non-holonomic systems, kinematics and dynamics, trajectory planning and obstacle avoidance, canonical terms, control design, stability, performance, and robustness.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6671 - Modern and Optimal Control Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5173.

The optimal control problem. Necessary conditions for constrained minimums in finite dimensional space. Application to discrete time control problems. Pontryagin conditions and Hamilton-Jacobi equations. Computational considerations.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6674 - Optimal Estimation for Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5173 or C.I.

Optimal filtering, smoothing, and prediction methods are analyzed with applications to a number of linear and nonlinear dynamic systems.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6675 - Stochastic Control**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3657 and EEL 4612C.

Models and solution techniques for decision-making problems in the presence of uncertainty; optimal control of systems with stochastic dynamics with perfect and imperfect state information.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6683 - Cooperative Control of Networked Autonomous Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL5173 or consent of instructor.

Fundamentals of cooperative control theory for autonomous vehicles and agents, with emphasis on consensus, effects of intermittent and delayed communication/sensing network, and cooperative control designs.

Odd Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6723 - Reconfigurable Logic Applications**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5722C or C.I.

Field-programmable gate array (FPGA) architectures, reconfigurable computing applications, and emerging central processing unit CPU+FPGA hybrid platform. The overall objective is to investigate the state-of-the-art FPGA-based reconfigurable computing both from a hardware and software perspective.

Odd Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6760 - Data Intensive Computing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CDA 5106 or C. I.

Data intensive computing and its enabling systems architectures such as MapReduce, cloud computing and storage, with a focus on system architecture, middleware and building blocks, programming models, algorithmic design, and application development.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6762 - Performance Analysis of Computer and Communication Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4742C and STA 3032 or C.I.

Stochastic modeling and discrete-event simulation; Markov chains; networks of queues; SemiMarkov models; application to multiprocessor systems, switching and multi-user communications.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6785 - Computer Network Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4768C or C.I.

Network types and network protocols. Design of networks and analysis of their performance.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6788 - Advanced Topics in Computer Networks

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4781 or C.I.

Advanced topics in the networking field, driven by the latest research and technology developments.

Odd Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6812 - Introduction to Neural Networks

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5825 or EEL 4798 or EEL 4750 or C.I.

Advanced Machine Learning and Applications. Perception Network, BP Network, Convolutional NN, Recurrent NN, Evolutionary Computation, and Reinforcement Learning.

Even Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6843 - Machine Perception

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 5820 or EEL 5825 or C.I. Advanced methods of machine understanding; simulation of intelligent machine systems; automatic recognition systems; visual tracking systems; multispectral feature analysis.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6865 - Architecture and Design of Software Intensive Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I.; and EEL 4851C or equivalent; and EEL 4884C or EEL 5881 . In depth study of software architecture and design of engineering complex software-intensive systems. Theory and practice.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6875 - Autonomous Agents

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4872 or CAP 4630 or C.I.

Agent architectures, including behavioral, decision theoretic and logic (BDI) based. Multi-agent systems, agent communication languages. Negotiation, argumentation, coalition formation. Project oriented.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6878 - Modeling and Artificial Intelligence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4872 or CAP 4630 or C.I.

Introduction to artificial intelligence techniques applied to computer-based modeling, simulation, and training.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6883 - Software Engineering II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5881 or equivalent; C.I.

Continuation of EEL 5881 . Emphasis on term projects and case studies.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 6909 - Research Report

College of Engineering and Computer Science

EEL 6918 - Directed Research

College of Engineering and Computer Science

EEL 6938 - ST: Integrated Grid-Tied PV Systems with Storage

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): EEL 3004.

This course is designed to equip students with knowledge on new energy technologies, specifically on grid-connected PV systems and energy storage systems.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 7919 - Research

College of Engineering and Computer Science

Engineering: Electrical and Electronic

EEE 5265 - Biomedical Effects and Applications of Electromagnetic Energy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 3470 or C.I. RF and microwave energy and their interaction with biological materials. Specific biomedical effects such as absorption, thermal therapy, hyperthermia, etc., will be discussed.

Even Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5279 - Advanced Bioelectronics Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEE 4309C or C.I. Advanced bioelectronics systems and techniques that enable recent biophysical and biomedical research will be discussed.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5323 - Radio Frequency Integrated Circuit Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 3307C and EEL 3470.

This course introduce the principles, analysis, and design of Radio frequency (RF) integrated circuits for wireless communication systems.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5332C - Thin Film Technology

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): EEE 3350 or equivalent.

Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices.

Material and Supply Fee: \$70.00 *Spring*

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5352 - Semiconductor Material and Device Characterization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 3350 or C.I.

Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films.

Odd Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5353 - Semiconductor Device Modeling and Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 3307C.

Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5356C - Fabrication of Solid-State Devices

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): EEE 3350.

Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology.

Material and Supply Fee: \$70.00 *Fall, Spring*

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5370 - Operational Amplifiers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 4309C.

Ideal and non-ideal Op-Amps. Linear applications. Active RC and switched-capacitor filters. Non-linear and other functional circuits. Frequency stability and compensation of Op-Amps.

Even Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5378 - CMOS Analog and Digital Circuit Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 4309C.

Advanced principles and design techniques for CMOS ICs including most recent published results.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5390C - Full-Custom VLSI Design

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

EEE 3307C and EEE 3342C with a "C" (2.0) or better grade. Provide background in integrated devices, circuits, and digital subsystems needed for design and implementation of silicon logic chips.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5445 - Terahertz (THz) Integrated Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4436.

High-frequency nonlinear electronic devices, millimeter-wave and THz integrated circuits, broadband time- and frequency-domain signal generation and sampling techniques, on-chip antennas.

Odd Fall, Even Fall

College of Sciences - Department of Electrical and Computer Engineering

EEE 5513 - Digital Signal Processing Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4750.

The design and practical consideration for implementing Digital Signal Processing Algorithms including Fast Fourier Transform techniques, and some useful applications.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5542 - Random Processes I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3552C and STA 3032.

Elements of probability theory, random variables, and stochastic processes.

Fall, Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5555 - Surface Acoustic Wave Devices and Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3552C.

Course discusses SAW technology which includes the physical phenomenon, transducer design and synthesis, filter design and performance parameters. Actual devices and communication systems are presented.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5557 - Introduction to Radar Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 3552C.

Introduction to Pulse and CW Radar Systems. Chirp Radar Systems. Tracking Radar. Noise in Radar Systems.
Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5781 - Cyber-Physical Technologies for Smart Communities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing, EEL 4781 or EEL 4515C or C.I.

Introducing technologies that enable smart and connected communities; technologies include sensing, computing, communications, and device technologies related to smart grid, smart infrastructure, and intelligent transportation systems.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5790 - Introduction to Secure Architectures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4768.

This course will provide the students with basic understanding of the state-of-the-art support for implementing security primitives in commodity processors. Specifically, the course focus on Intel's Safe-Guard Extension(SGX), ARM's TrustZone and AMD's SME and SEV.

Fall, Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 5917 - Directed Research

College of Engineering and Computer Science

EEE 6317 - Power Semiconductor Devices and Integrated Circuits

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 3350 or equivalent or C.I.

Fundamental understanding of modern power semiconductor devices and integrated circuits (ICs) in relation to their applications in power electronics systems.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6326C - MEMS Fabrication Laboratory

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): C.I.

Silicon Nitride and Poly-silicon Depositions, Photolithography, Dry and Wet etching processes, Metal depositions and etching, MEMS device design and fabrication.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EEE 6338 - Advanced Topics in Microelectronics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Covers advanced topics in microelectronics such as semiconductor device physics, semiconductor device fabrication, and semiconductor device modeling.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6347 - Trustworthy Hardware

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEE 5390C or EEL 5704 or C.I. Introduce the concept of trustworthy hardware. Review scientific publications in the area of trustworthy hardware. Design, analyze, and evaluate trustworthy embedded systems.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6358 - Advanced Semiconductor Device I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 3350.

First course in advanced semiconductor device physics and modeling. Main stream devices including junctions diode, bipolar transistor, and metal-oxide field-effect transistor.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6406 - Modern EDA Algorithms in VLSI

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4783.

This course covers all of the most important aspects of modern Electronic Design Automation (EDA) software: logic synthesis, circuit placement, and routing algorithms. Students will not only learn theory but also gain hands-on experience by doing a software project.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6475 - CMOS Analog and Digital Integrated Circuit Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 4309C or C.I.

The objective of this class is to teach the graduate students the principle and techniques of CMOS IC design for high performance, low power, and RF applications.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6504 - Adaptive Digital Signal Processing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 5513 or C.I.

Weiner filtering, Least Mean Square and Recursive Least Squares based algorithms, adaptive prediction and identification with applications such as echo cancellation, etc.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6505 - Multidimensional Digital Processing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEE 5513 or C.I. Multidimensional signals and systems. Two-dimensional transforms and filters. Image processing applications.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6527 - Compressive Sensing**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEE 5542. This course offers a broad coverage of the emerging topic of compressive sensing. The focus of the course is on describing the ideas and techniques that have been developed in this field with emphasis on theoretical foundations, algorithm developments, and applications.

Fall

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6543 - Random Processes II**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEE 5542.

Stochastic processes. Mean-squared estimation. Queuing theory. Spectral estimation. Applications to communications and radar systems.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6558 - Advanced Radar Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEE 5557. Advanced radar concepts: electromagnetic propagation and target scattering and fading; radar signal processing - target parameter estimation and information extraction, and radar system design.

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6712 - Modeling and Analysis of Networked Cyber-Physical Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and (EEL 4781 or EEL 4515C) or C.I. Analysis, modeling and design of networked cyber-physical systems such as intelligent transportation systems and industrial control networks; stochastic hybrid systems, continuous and discrete system modeling approaches; industry standards in transportation, smart grid, industrial control, and their use and implication in design of distributed systems.

Spring

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 6721 - Evolvable Hardware**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EEL 5722C or C.I. Evolvable digital and analog computing hardware, including intrinsic and extrinsic reconfigurable architectures, self-adapting circuits, and autonomous computing architectures.

Occasional

College of Engineering and Computer Science - Department of Electrical Engineering and Computer Science

EEE 6780 - Advanced Topics in Real-Time Cyber Physical Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 5862/4862.

This course will provide students recent research in real-time and cyber-physical systems by exploring important papers in selected topics.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEE 7919 - Directed Research

College of Engineering and Computer Science

EEL 5250 - Power System Detection and Estimation**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4216 or C.I.

This is an advanced course to power engineering, designed to provide students with the knowledge of stability and outage detection and state estimation methods.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

EEL 5272 - Biomedical Sensors

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4750 or EEL 4832 or C.I.

Study of engineering concepts behind the various biomedical sensors used to monitor a patient undergoing clinical therapy.

Occasional

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

Engineering: Environmental

ENV 5410 - Water Treatment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EES 4202C or ENV 5517 or C.I.

Potable water regulations, standards, chemical reactors, oxidation, disinfection, disinfection by-products, ultraviolet irradiation. Internal corrosion and microbial control in municipal and industrial water distribution systems.

Odd Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 5505 - Sludge Management Operations in Environmental Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENV 4561.

Theory and design of sludge management operations and processes in environmental engineering, including stabilization dewatering and ultimate disposal.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 5517 - Engineering Chemical and Biological Processes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): ENV 4561(or equivalent) or C.I.

Coverage of equilibrium/aquatic chemistry, softening and coagulation, and disinfection of water. Microbiology and biochemistry as applied to activated sludge system design.

Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 5636 - Environmental and Water Resources Systems Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENV 3001 or C.I.

Discussion of environmental and water resources systems with the emphasis on cost-effectiveness, pollution prevention, and sustainability to aid in environmental engineering decision-making.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 5917 - Directed Research

College of Engineering and Computer Science

ENV 5937 - Special Topics

College of Engineering and Computer Science

ENV 6015 - Physical/Chemical Treatment Systems in Environmental Engineering**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENV 4561 and EES 4202C or C.I.

Theory and design of physical and chemical operations and processes in environmental engineering using latest technologies.

Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6016 - Biological Treatment Systems in Environmental Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EES 4111C and ENV 4561 or C.I.

Theory and design of biological operations and processes in environmental engineering using the latest technologies.

Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6030 - Environmental Biotechnology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EES 4111C.

Environmental Biotechnology teaches graduate students the management of microorganism-based engineer systems for applications in waste treatment and energy generation.

Even Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6046 - Membrane Mass Transfer**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENV 6015 or C.I.

Introduction to modeling of mass transfer in membrane systems; membrane morphology, mathematical development of mass transfer coefficients; fouling mechanisms, system modeling, and applications.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6047 - Environmental Informatics and Remote Sensing**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Discussion of how the environmental informatics, including hydroinformatics, can be applied for sustainable decision making with the emphasis on remote sensing, GIS, expert systems, decision support systems, data mining, and environmental management.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Atmospheric composition and dynamics. Engineering methods of mathematical modeling, both for point source and mobile source. Current computer models will be used.

Even Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6126 - Design of Air Pollution Controls

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Current methods for engineering design and performance analysis of air pollution control equipment to include scrubbers, baghouses, electrostatic precipitators, VOC incinerators, others.

Odd Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6128 - Smart Air Quality Monitoring and Air Pollution Control

3 Credit Hours

Prerequisite(s): CGN 5555.

This course will introduce science and engineering principles in smart air pollution measurement and control. Hands-on experiences are also provided.

Odd Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6519 - Aquatic Chemical Processes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EES 4202C and EES 4111C or C.I.

The applicability of water chemistry and physical chemistry on natural waters and waste-water with emphasis on environmental engineering problems.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6533 - Smart Water and Wastewater Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENV 3001 with a grade of "C" (2.0) or better or C.I.

This course introduces the concepts of smart water and wastewater systems and how advanced technology are being used for sustainable urban development.

Odd Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6558 - Industrial Waste Treatment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENV 4561.

Theories, methods, unit operations of management, reduction, treatment, disposal of industrial wastes.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6616 - Ecological Engineering and Receiving Water Impacts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ENV 5517 or C.I. Ecological engineering principles, ecosystem restoration and receiving water impacts. Introduction of green building design and integration of new ecosystem associated with green infrastructures and applications for eco-city design.

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

ENV 6909 - Research Report

College of Engineering and Computer Science

ENV 6918 - Directed Research

College of Engineering and Computer Science

ENV 6938 - Special Topics

College of Engineering and Computer Science

ENV 7919 - Research

College of Engineering and Computer Science

Engineering: Mechanical

EML 5026C - Computational Engineering Analysis

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): EML 4024C.

Principle understanding and project based hands-on experience on computational engineering analysis including Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), and Multi-body Dynamics (MBD).

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5060 - Mathematical Methods in Mechanical and Aerospace Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 2302.

Vector field theory, generalized coordinates, complex variables, contour integration and Laplace and Fourier transforms and inversions, variable coefficient ODEs and solution of PDEs for governing equations of heat transfer, ideal fluid flow, and mechanics.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5066 - Computational Methods in Mechanical and Aerospace Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3034C.

Error Norms, interpolation and extrapolation, quadratures and adaptive quadratures, solutions of linear and nonlinear systems of equations, functional approximation, solution of ODE's and MWR.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5090 - Mechanical and Aerospace Seminar

0 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 0

Contact Hours: 0

Prerequisite(s): Graduate standing or C.I.

The course is intended to help MAE graduate students practice public speaking, learn skills of scientific communication, expand their width of knowledge, and promote collaborations. May be repeated.

Fall, Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5105 - Gas Kinetics and Statistical Thermodynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EAS 4134 or EML 4703.

Molecular and statistical viewpoint of gases and thermodynamics; Boltzmann collision integral, partition functions, non-equilibrium flows. Applications in thermo-fluid systems.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5152 - Intermediate Heat Transfer

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 4142, EML 5060.

An intermediate-level course dealing with heat and mass diffusion, boundary layer problems, and radiation from real bodies. Emphasis on combined modes, numerical methods.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5228 - Modal Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3303C, EML 4225, and EML 5060.

Theoretical basis. Measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures. Modeling.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5237 - Intermediate Mechanics of Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3500 or EAS 4200.

Elements of elasticity. Failure theories. Bending and torsion. Thin plates. Energy principles. Thick-walled cylinders. Applications to design.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5271 - Intermediate Dynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3321.

Dynamics of particles, rigid bodies, and distributed mass systems. Topics include: Hamilton's principle, Lagrange's equations, Numerical methods, and Mechanisms.

Odd Spring, Even Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5290 - Introduction to MEMS and Micromachining

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Introduction of Micro-Electro-Mechanical-Systems (MEMS) and micromachining (microfabrication) methods. Etching and etching mask. Basics of silicon macromachining processing. Fundamentals of bulk micromachining. Thin film formation and surface micromachining. Microplating and LIGA process. Nonlithographic micromachining process including laser. May be repeated for credit.

Odd Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5291 - MEMS Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060, EML 6211, or C.I.

Introduction of materials that are frequently used for MEMS applications such as silicon, metal, ceramics and polymers. The course will focus on fundamental principles involved in structures and properties of the materials, and their applications in MEMS.

Even Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5311 - System Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 4225. Corequisite(s): EML 5060.

Modern control theory for linear and non-linear systems; controllability and observability. Linear state feedback and state estimators, compensator design.

Odd Fall, Even Fall, Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5402 - Turbomachinery

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3101, EML 4703 or EAS 4134.

Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5403 - Science and Technology of Fuel Cells

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365, EMA 4102 or C.I.

Fundamental knowledge along with hands-on experience with design, manufacturing and operation of fuel cells.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5430C - Design for Manufacturing in Turbomachinery: Gas/Steam/Wind Turbines and Generators

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): EGN 3365 or EMA 3706.

Overall assembly of rotating and stationary components in power generation powertrains; probabilistic design, materials, coatings, manufacturing steps, defects for gas/steam/wind turbines and generators.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5431C - Design for Mechanical and Dynamic Integrity and Reliability in Turbomachinery

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): EGM 3601, EML 4220 or EML 4225, EGN 3365 or EMA 3706.

Mechanical and dynamic integrity issues such as creep, fatigue, fracture, rotordynamics, vibration, flutter, as related to turbines and generators; reliability; cost-time-performance trade-off in design.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5456 - Turbines for Sustainable Power

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGM 3601, (EGN 3365 or EMA 3706), (EML 3701 or EAS 3101) Corequisite(s): EML 4142.

Multidisciplinary aspects of turbine design for sustainable power generation including aerodynamics to combustion and emissions to reliability; covers multiple applications of convention and green technology.

Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5532C - Computer-Aided Design for Manufacture

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): EGN 4535C.

Builds on introductory material covered in EML 4535C. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5545 - Smart and Adaptive Structures

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

(EAS 4200 or EML 3500) and EML 4225 and (EGN 3365 or EMA 3706) or C.I. Modeling and design of structures with integrated active materials: piezoelectric ceramics and polymers, shape memory alloys and polymers, magneto- / electro-rheological fluids, magneto- / electro-strictives. Multi-stable structures.

Even Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5546 - Engineering Design with Composite Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5237.

Mechanics of structural components of composite materials under static, thermal, vibratory loads. Instability. Lamina and laminate theory, energy methods, failure theories, and structural joining methods.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5713 - Intermediate Fluid Mechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 4703. Corequisite(s): EML 5060.

Fluid kinematics; conservation equations; Navier-Stokes equations; boundary layer flow, inviscid flow, circulation and vorticity; low Reynolds number flow; turbulence.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 5917 - Directed Research

College of Engineering and Computer Science

EML 6062 - Boundary Element Methods in Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5237 or EML 5713 or C.I.

Integral (numerical) solution of potential, Poisson and diffusion equations; applications to heat transfer and fluid flow; complex variable boundary element methods.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5237 or EML 5713.

Finite element analysis of thermomechanical response of aerospace and mechanical components and structures. Plates and shells. Vibrations. Composite materials. Minimum weight design. CAD interface. Introduction to codes.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 6067 or C.I.

Advanced finite element applications to aerospace and mechanical components and structures. Rotating systems. Fracture mechanics. Aeroelasticity. Buckling. Impact. Use of codes.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6085 - Research Methods in Mechanical and Aerospace Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060.

Research project is an MAE option under supervision of an adviser. A project report is due at the end of the semester.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6104 - Classical Thermodynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3101 or C.I.

A general postulative approach to classical macroscopic thermodynamics featuring states as fundamental constructs. Conditions of equilibrium, stability criteria, thermodynamic potentials. Maxwell relations and phase transitions.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6131 - Combustion Phenomena

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5152.

Physical and chemical aspects of combustion phenomena. Rate processes, chemical kinetics, structure, propagation and stability of premixed and diffusion flames.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6144 - Boiling and Condensation Heat Transfer

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 4142 or C.I.

Phase changes heat transfer including boiling and condensation. Phenomenological treatment of pool boiling, two-phase flow, and convective boiling. Filmwise and dropwise condensation. Applications.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6154 - Conduction Heat Transfer

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5152 or C.I.

Classical and numerical techniques applied to the solution of steady and transient conduction problems. Applications to the design of thermal systems.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6155 - Convection Heat Transfer

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5152, EML 5713, or C.I.

Convection heat, mass and momentum transfer in laminar and turbulent flows. Applications to the design of thermal systems.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6157 - Radiation Heat Transfer

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5152 or C.I.

Radiation properties of surfaces and analysis of radiative heat transfer between black, gray, non-gray and non-diffuse surfaces. Multimode problems.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6211 - Continuum Mechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5237.

Introduction to tensors; deformation and strain; stress; balance laws; constitutive equations; applications in linear elasticity.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6223 - Advanced Vibrational Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 4220, EML 5271 or C.I.

Discrete and distributed parameter systems. Introduction to nonlinear and random vibrations. Concepts of modern dynamic analysis.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6226 - Analytical Dynamics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EML 5271. Kane method for kinematics and dynamics of particle and rigid bodies is developed and contrasted with Newton and Lagrange methods. Multibody dynamics.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6227 - Nonlinear Vibration**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EML 5060 and EML 5271. Robust, reliable algorithms for simulation of nonlinear phenomena; phase planes; limit cycles; stability; period-multiplying bifurcations; strange attractors; Poincare maps; Floquet theory; Lyapunov exponents; applications to mechanical and aerospace systems.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6233 - Fundamentals of Fatigue Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 6211 or C.I.

A review of classical and modern methods of fatigue life prediction and the physical process therein. Primary emphasis relates to metallic materials.

Even Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6238 - Plates and Shells

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EGM 3601, EML 6211, EML 5060. This course introduces the reduction of 3D elasticity to an equivalent 2D counterpart; basic assumptions; field equations of the theory of plates and shells; linear and nonlinear theories; buckling and vibrations; refined plate and shell theories.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6295 - Sensors and Actuators for Micro Mechanical Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060, EML 6211, or C.I.

Classifications of sensors and actuators. Physics of sensing and actuation. Evaluation of sensors and actuators.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6296 - MEMS Mechanism and Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 3500, EGM 3601, EML 4142.

Miniature Electro Mechanical Systems (MEMS) working mechanisms (mechanical, thermal, electric, piezoelectric, magnetic, etc.). Design rules. May be repeated for credit.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6297 - MEMS Characterization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060, EML 6211, or C.I.

Introduction of methods, techniques and philosophies being used to characterize MEMS for engineering applications. Materials characterization, systems characterization (mechanical, electrical, optical, etc). Test methods and sample preparation. Test results analysis.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6299 - Advanced Topics on Miniaturization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060, EML 6211, or C.I.

Advanced sensor and actuator devices, advanced micro-thermal systems, advanced topics on materials for MEMS, advanced topics on tribology for MEMS/NEMS, advanced topics on miniature power generation systems.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6305C - Experimental Mechanics

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): EML 4304C, EML 5237.

Selected topics in strain measurements, photoelasticity, holographic interferometry; laser speckle measurement; acoustic emission, measurement of correlation and coherence functions.

Material and Supply Fee: \$25.00 *Occasional*

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6308C - Thermofluids Measurements and Instrumentation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): EML 4703, EML 3303C, EML 5060, EML 5152 or C.I.; not open to students that have credit for EAS 6807C.

Surface pressure and shear measurements, hotwire anaemometry, heat transfer coefficient measurement, LDV, PDPA and PIV flow field measurements.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6547 - Engineering Fracture Mechanics in Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5237 or C.I.

General understanding of elementary concepts. Practical application enabling useful prediction of fracture safety and characteristics. Some general knowledge of fracture mechanisms and fracture criteria.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6572 - Probabilistic Methods in Mechanical Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 and EML 3500 or EAS 4200.

Uncertainty modeling in design and analysis of industrial equipment and engineering systems (data analytics, quality control, and reliability engineering).

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6712 - Mechanics of Viscous Flow

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5060 , EML 5713.

Principal concepts and methods for viscous fluid motion. Incompressible and compressible boundary layer analysis for laminar and turbulent flows.

Odd Fall

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6725 - Computational Fluid Dynamics and Heat Transfer I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 5152 or C.I.

Finite Difference methods; error and stability analysis; applications to model equations and further developments; matrix methods.

Spring

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6726 - Computational Fluid Dynamics and Heat Transfer II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 6725.

Development of governing equations; turbulence modeling; numerical solution of Euler and potential equations, Navier-Stokes equations, and boundary layer equations; grid generation.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6808 - Analysis and Control of Robot Manipulators**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EML 4312C, EML 5271, or C.I.

Kinematics and dynamics of multibody systems, especially robot manipulators. Design and control of robot manipulators.

Occasional

College of Engineering and Computer Science - Department of Mechanical and Aerospace Engineering

EML 6909 - Research Report

College of Engineering and Computer Science

EML 6918 - Research

College of Engineering and Computer Science

EML 7908 - Independent Study

College of Engineering and Computer Science

English Composition**ENC 5237 - Writing for the Business Professional****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

A study of the major document designs for professionals in business, focusing on audience, purpose, style, arrangements, and content.

Fall, Spring

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 5276 - Theory and Practice of Tutoring Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the M.A. in Rhetoric and Composition program, graduate standing or C.I.
The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator).

Fall

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 5337 - Rhetorical Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Overview of theory and history of classical and modern rhetorical theory and rhetorical instruction.

Fall, Odd Summer

College of Arts and Humanities - Department of English

ENC 5703 - Composition Histories and Theories

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Intensive seminar on historical, theoretical, and intellectual traditions and approaches to composition and rhetoric.

Fall, Spring

College of Arts and Sciences - Department of Writing and Rhetoric

ENC 5705 - Approaches to Teaching College Composition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Intensive pedagogical and theoretical seminar on teaching composition at the college level.

Fall, Spring

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 5917 - Directed Research

College of Arts and Humanities

ENC 5920 - Colloquium in Rhetoric and Composition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Foundational concepts, readings, and journals in the areas of composition, literacy, and rhetoric.

Odd Fall, Even Fall

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 5930 - Current Topics in Professional Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or C.I.

Students will learn how to produce texts for specialized fields of discourse, including the medical and legal profession, as well as for general publication.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 5933 - Seminar for Peer Writing Consultants

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Explore writing center research and practice on a professional level.

Fall, Spring

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 5937 - Special Topics

College of Arts and Humanities

ENC 6216 - Editing Professional Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The study of major issues in editing, includes theory and scholarship of professional editing.

Spring

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6217 - Technical Editing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English, or C.I.

A study of the strategies for editing the prose, design, and illustrations of print and online technical documents.

Occasional

College of Arts and Humanities - Department of English

ENC 6225 - User-Centered Design for Technical Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to English MA or C.I.

Covers multiple user-centered design methods, including usability testing; prototyping; and user research. Applies methods to a technical communication design problem.

Even Fall

College of Arts and Humanities - Department of English

ENC 6245 - Teaching Professional Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Theory and practice of teaching professional writing in college and the workplace. Includes historical and contemporary approaches.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6247 - Proposal Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Theory and practice of writing proposals.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6255 - International Technical Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the English MA program or C.I.

Documentation for international audiences and the challenges of communicating across cultures.

Even Spring

College of Arts and Humanities - Department of English

ENC 6257 - Visual Technical Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing in English or C.I. Creation and editing of graphics in technical documents.

Occasional

College of Arts and Humanities - Department of English

ENC 6261 - Technical Writing, Theory and Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of major trends in technical communication theory and the practices this theory generates.

Occasional

College of Arts and Humanities - Department of English

ENC 6292 - Project Management for Technical Writers.

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Managing a writing project from inception to production; planning, budgeting, personnel, writing, and editing.
Occasional

College of Arts and Humanities - Department of English

ENC 6296 - Interactive Design in Technical Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The theory and practice of writing and designing interactive systems for users, including online help tutorials, procedures, and demonstrations.

Occasional

College of Arts and Humanities - Department of English

ENC 6297 - Production and Publication Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Production of technical documents including typography, visual rhetoric, layout and design, and planning and managing documentation projects.

Occasional

College of Arts and Humanities - Department of English

ENC 6306 - Persuasive Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Theory and practice of writing persuasively.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6332 - Gendered Rhetoric

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Questions women's and men's linguistic choices, the influence of medium and discipline of discourse, and consequences of status, power, and oppression.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6333 - Contemporary Rhetoric and Composition Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Instruction on politics of basic writing programs, rhetoric, ideology and cultural production, poststructuralism and rhetoric or reinvent pedagogies. May be used in the degree program a maximum of 3 times.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6335 - Rhetorical Traditions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Philosophy and techniques of classical rhetoricians such as Isocrates, Aristotle, and Cicero with special attention to their application to contemporary rhetorical situations.

Fall, Spring

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6338 - The Rhetorics of Public Debate

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

How rhetorical theories further community goals, including activist, political, legislative, and other significant public debates.

Occasional

College of Arts and Humanities - Department of English

ENC 6339 - Rhetorical Movements

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

To study the principal rhetorical theories of the classical period and rhetoric of the eighteenth and nineteenth centuries. May be used in the degree program a maximum of 3 times.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6421 - Digital Rhetorics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Study of rhetorical theory and practice shaped by digital environments, technologies, and texts, including contemporary issues around rhetorical invention, identity, and multimodality.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6425 - Hypertext Theory and Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing in English or C.I. Theoretical and practical study of the uses and premises of hypertext.

Occasional

College of Arts and Humanities - Department of English

ENC 6426 - Visual Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Studies visual dimensions of the texts of digital discourse.

Occasional

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENC 6428 - Digital Literacies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Study of digital technology's impact on literacy theory, activities, and pedagogy, including reading and writing practices, as well as larger cultural shifts in communication and patterns of thinking.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6429 - Teaching Writing With Computers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Immersion in the theories and practices of writing in electronic spaces including current discourse conventions from speech and print media.

Occasional

College of Arts and Humanities - Department of English

ENC 6484 - Rhetoric of Health and Medicine

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

How health and medical rhetorics function in society; will study the rhetorical dimensions of clinical care, public health, patient advocacy, and personal health management.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6701 - Professional Writing Studies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Foundational theories and practices in rhetoric and professional writing.

Fall

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6712 - Studies in Literacy and Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Theories of cultural and critical literacy, definitions of literacy, and current political issues in literacy studies.

Odd Fall

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6720 - Research Methods in Rhetoric and Composition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Study and practice in research methods of Rhetoric and Composition Studies, with emphasis on textual and qualitative approaches.

Spring

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6740 - Topics in Rhetoric and Composition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

In-depth exploration of important historical, theoretical, and/or pedagogical topics in Rhetoric and Composition Studies. May be used in the degree program a maximum of 2 times only when course content is different.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

ENC 6909 - Research Report

College of Arts and Humanities

ENC 6918 - Directed Research

College of Arts and Humanities

ENC 6938 - Special Topics

College of Arts and Humanities

ENC 6945 - Community Literacy Practicum

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Designed to deepen theoretical understanding of literacy through participation in a community literacy project.

Occasional

College of Arts and Humanities - Department of Writing and Rhetoric

English Literature

ENL 5917 - Directed Research

College of Arts and Humanities

ENL 5937 - Special Topics

College of Arts and Humanities

ENL 6909 - Research Report

College of Arts and Humanities

ENL 6918 - Directed Research

College of Arts and Humanities

ENL 6938 - Special Topics

College of Arts and Humanities

English: General

ENG 5009 - Methods of Bibliography and Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Bibliographical, library and systematic approaches to research at the graduate level in language and literature.

Fall

College of Arts and Humanities - Department of English

ENG 5917 - Directed Research

College of Arts and Humanities

ENG 5937 - Special Topics

College of Arts and Humanities

ENG 6005 - Dissertation Research Design in Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENG 6812 or ENC 6720 or DIG 6825 or HIS 6159 or C.I.

Preparation for the initial stages of dissertation development, including planning, research question development, and methodology determination.

Fall

College of Arts and Sciences - Dean's Office

ENG 6074 - Historical Movements in Literary, Cultural, and Textual Studies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Theories of literature, cultural, and textual formation from ancient Greece to the mid 20th century.

Occasional

College of Arts and Humanities - Department of English

ENG 6078 - Contemporary Movements in Literary, Cultural, and Textual Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Theories of literature, cultural, and textual formation since the mid 20th century.

Fall

College of Arts and Humanities - Department of English

ENG 6624 - Social Media Research for Humanities**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Fundamentals of humanist research in social media. Students read canonical and contemporary social media research and learn to collect and analyze social media data.

Occasional

College of Arts and Humanities - Texts and Technology PhD

ENG 6800 - Introduction to Texts and Technology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Basic concepts of graduate study in Texts and Technology.

Fall

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6801 - Texts and Technology in History**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into the Texts and Technology program, graduate standing, or C.I.

Explores the history of relations between the Texts and Technology. We examine how various technologies have influenced the nature of texts they produce.

Spring

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6806 - Digital Editing and Databases

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Enrollment in Texts and Technology PhD program or Digital Media master's program.

Applied aspects of textual reproduction and editing, including scanning (OCR) and XML coding, as such processes relate to database content and use.

Occasional

College of Arts and Humanities - Department of English

ENG 6808 - Narrative Information Visualization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Exploration of theory and practice of information visualization, with emphasis on visualization in interactive digital texts. Includes working with large datasets to develop narrative visualizations.

Occasional

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6810 - Theories of Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into the Texts and Technology program, graduate standing, or C.I.

Introduces general theoretical concepts as a basis for the advanced study of Texts and Technology.

Spring

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6811 - Cultural Contexts in Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Selected cultural contexts in which texts and technologies converge and where reciprocal mediation, definition, or transformation occurs. May be used in the degree program a maximum of 2 times.

Fall

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6812 - Research Methods for Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into the Texts and Technologies program, graduate standing, or C.I.

Prepares students to design, conduct, and critique empirical research in textual technologies, broadly conceived.

Fall

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6813 - Interdisciplinary Teaching

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Theory and practice of designing interdisciplinary courses and curricula for the humanities. Includes strategies, theories, and best practices.

Even Spring

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6814 - Gender in Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Relationships among text, science, technology and gender.

Occasional

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6819 - Critical Making for Humanist Scholarship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Critical making is making as scholarship, grounded in the humanities, interweaving design, function, and theory

through attention to code, software, and hardware.

Occasional

College of Arts and Humanities - Texts and Technology PhD

ENG 6826 - Professionalization in Texts and Technology

0 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 0

Contact Hours: 0

Graduate standing or C.I. Professional development workshops, panel discussions, and hands-on activities to assist graduate students in preparing for successful careers.

Fall, Spring, Summer

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6909 - Research Report

College of Arts and Humanities

ENG 6918 - Directed Research

College of Arts and Humanities

ENG 6938 - Special Topics

College of Arts and Humanities

ENG 6939 - Topics in Text and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Experimental methods of writing and research, possibly including photography, cinema, Internet, and other transformations of narrative form. May be used in the degree program a maximum of 3 times.

Fall, Spring

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6947 - Internship in Texts and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Texts and Technology PhD program or CI.
Internship in opportunity to integrate practical experience with theory and content from Texts and Technology program.

Fall

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

ENG 6949 - Cooperative Education in English: General

College of Arts and Humanities

ENG 6950 - Capstone Course

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English and at least 18 graduate credit hours in English.
Systematic and comprehensive revision of previous graduate writing with special attention to use of theory and professionalization towards the goal of publication and/or conference presentation.

Spring

College of Arts and Humanities - Department of English

Entomology

ENY 5006C - Entomology

4 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 6

Contact Hours: 8

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Morphology, physiology, ontogeny, behavior, ecology and population biology of insects
Material and Supply Fee: \$40.00 *Odd Fall*

College of Sciences - Department of Biology

ENY 5917 - Directed Research

College of Sciences

ENY 5937 - Special Topics

College of Sciences

Entrepreneurship

ENT 5016 - New Venture Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Applies contemporary methodologies to guide the creation, validation, and ongoing development of new business models for startup businesses and other new ventures.

Fall

College of Business Administration - Department of Management

ENT 5185 - Technological Entrepreneurship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Examines how technology and innovation processes affect social and organizational change, and the distinct challenges associated with launching, managing and growing technology-based business ventures.

Spring

College of Business Administration - Department of Management

ENT 5206 - New Venture Implementation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ENT 5XXX New Venture Design. Explains how to execute a well-researched business model by implementing required and strategic actions necessary to launch a new venture.

Spring

College of Business Administration - Department of Management

ENT 5619 - Creativity and Entrepreneurship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Graduate Standing.

This course presents contemporary methods for characterizing customer problems, designing creative solutions, and assessing value propositions for startup business ventures.

Fall

College of Business Administration - Department of Management

ENT 5946 - Small Business Consulting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This is a highly experiential course where students are assigned to teams that complete consulting projects for local small businesses.

Fall

College of Business Administration - Department of Management

ENT 6418 - Small Business Accounting and Finance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Master's of Science in Management Integrated Business track.

Introduces accounting concepts, financial statements, ratio analysis, time value of money, cash flow management, forecasting, funding sources, cost of capital, and capital budgeting.

Spring

College of Business Administration - Department of Management

ENT 6617 - Innovation and Entrepreneurship Strategy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. An in-depth examination of strategies that promote the diffusion of innovations and the success of innovation-driven business and social ventures.

Fall, Summer

College of Business Administration - Department of Management

ENT 6900 - Entrepreneurship Portfolio

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the graduate college.

This course provides students with an opportunity to achieve new venture development milestones, demonstrate specific entrepreneurial competencies associated with those milestones, and connect with community experts tasked with assessing their efforts. It emphasizes entrepreneurship as practice, and rewards students for making tangible progress on connecting with customers, developing solutions, and organizing startup ventures.

Every Semester

College of Business Administration - Department of Management

Environmental Engineering Science

EES 5318 - Industrial Ecology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ENV 3001, ENV 4341.

Discussion of similarities between ecological systems and industrial systems with the emphasis on material cycles, energy flow, pollution prevention, organizational structures, and environmental management.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

EES 5917 - Directed Research

College of Engineering and Computer Science

EES 5937 - Special Topics

College of Engineering and Computer Science

EES 6909 - Research Report

College of Engineering and Computer Science

EES 6918 - Directed Research

College of Engineering and Computer Science

EES 6938 - Special Topics

College of Engineering and Computer Science

EES 6971 - TREATISE (THESIS OR Research Report)

College of Engineering and Computer Science

European History

EUH 5208 - Colloquium in Early Modern History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Readings and discussion on selected topics in the historiography of Early Modern Europe (circa 1400 to 1800).

Occasional

College of Arts and Humanities - Department of History

EUH 5419 - Colloquium in Roman History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Readings in selected topics in the history of Ancient Rome. May be used in the degree program a maximum of 2 times only when course content is different.

Occasional

College of Arts and Humanities - Department of History

EUH 5459 - Colloquium in French History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Readings in selected topics in French History. May be used in the degree program a maximum of 3 times.

Even Summer

College of Arts and Humanities - Department of History

EUH 5546 - Colloquium: British History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Selected topics in British history. There is no standard syllabus because content is different with each offering. May be repeated for credit only when course content is different.

Occasional

College of Arts and Humanities - Department of History

EUH 5579 - Colloquium in Soviet Russia

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Reading and class discussion of the literature on selected topics in Russian history, 1911-present.

Occasional

College of Arts and Humanities - Department of History

EUH 5905 - European Imperialism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Readings in selected topics in the history of European Imperialism. May be used in the degree program a maximum of 3 times only when course content is different.

Occasional

College of Arts and Humanities - Department of History

EUH 5917 - Directed Research

College of Arts and Humanities

EUH 5925 - Colloquium in Medieval Europe

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Readings in selected topics in the history of medieval Europe. May be used in the degree program a maximum of 3 times only when course content is different.

Occasional

College of Arts and Humanities - Department of History

EUH 5937 - Special Topics

College of Arts and Humanities

EUH 6909 - Research Report

College of Arts and Humanities

EUH 6918 - Directed Research

College of Arts and Humanities

EUH 6938 - Special Topics

College of Arts and Humanities

EUH 6939 - Seminar in European History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Research seminar on selected topics in European history. May be repeated for credit only when course content is different.

Odd Spring

College of Arts and Humanities - Department of History

EUH 6971 - Treatise (Thesis or Research Report)

College of Arts and Humanities

Experimental Analysis of Behavior

EAB 5917 - Directed Research

College of Sciences

EAB 5937 - Special Topics

College of Sciences

EAB 6909 - Research Report

College of Sciences

EAB 6918 - Directed Research

College of Sciences

EAB 6938 - Special Topics

College of Sciences

Experimental Psychology

EXP 5208 - Sensation and Perception

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

A study involving human information processing with regard to physical and psychological variables in sensory and perceptual phenomena.

Odd Spring

College of Sciences - Department of Psychology

EXP 5254 - Human Factors and Aging

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status, or C.I.

Drawing from human factors, ergonomics, and aging, this course discusses methods for enhancing the independence and quality of life of older adults and caregivers.

Even Fall

College of Sciences - Department of Psychology

EXP 5256 - Human Factors I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Survey of human factors literature. Introduction to topics including human capabilities and human interfaces with human-machine systems.

Fall

College of Sciences - Department of Psychology

EXP 5917 - Directed Research

College of Sciences

EXP 5937 - Special Topics

College of Sciences

EXP 6116 - Visual Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EXP 5208 or C.I.

The psychology, physics and physiology of vision with an emphasis on the human visual response and applications of vision research.

Spring

College of Sciences - Department of Psychology

EXP 6255 - Human Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EXP 6506 and (EXP 5256 or EXP 6257), or C.I.

Human performance dimensions and concepts of assessment of human capabilities; performance acquisition, information processing and decision making; applications of principles to the understanding of stress and performance effectiveness.

Fall

College of Sciences - Department of Psychology

EXP 6257 - Human Factors II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EXP 5256.

The second in the series of basic human factors courses involving an in-depth examination of issues.

Spring

College of Sciences - Department of Psychology

EXP 6258 - Human Factors III

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EXP 5256, EXP 6257.

The third in the series of basic human factors courses. Current topics in human factors, exchange of information on practical field experience in human factors.

Fall

College of Sciences - Department of Psychology

EXP 6506 - Human Cognition and Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EXP 3404C and EXP 3604C.

Research and theory relating to attention, memory, problem solving, and reasoning.

Fall

College of Sciences - Department of Psychology

EXP 6541 - Advanced Human Computer Interaction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EIN 6258 or C.I.

Principles and guidelines of advanced human computer interaction as they apply to a variety of complex human machine systems.

Spring

College of Sciences - Department of Psychology

EXP 6909 - Research Report

College of Sciences

EXP 6918 - Directed Research

College of Sciences

EXP 6939 - Teaching Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Orientation to and supervision in teaching assigned courses.

Occasional

College of Sciences - Department of Psychology

EXP 6945 - Human Factors Internship

8 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 12

Contact Hours: 12

Prerequisite(s): EXP 5256, EXP 6257, PSY 6216C, PSY 7218C, EXP 6255, or C.I.

Supervised placement in an industrial, governmental, or consulting setting. Student completes a specific project under the supervision of an organizational sponsor and a faculty member.

Occasional

College of Sciences - Department of Psychology

EXP 7919 - Research

College of Sciences

Film

FIL 5141C - Feature/TV Writing

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admitted to the Emerging Media MFA, Entrepreneurial Digital Cinema Track, and C.I.

Writing workshop, examination of mythic storytelling, and ethics of scriptwriting.

Fall

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 5371C - Documentary Production

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admitted to the Emerging Media MFA, Entrepreneurial Digital Cinema Track or C.I.

Tutorial-based studio course in which students author and apply narrative structure and production techniques to nonfiction film.

Spring

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 5406 - Theories of Film Production

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Film MFA student or C.I.

Comparative analysis of motion picture production methodologies, including the studio industrial model, from a historical/critical perspective.

Spring

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 5419 - Developing the Film Screenplay

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MFA Film and Digital Media-Entre Dig Cin track, or C.I.

Development of an existing, original screenplay to fit the demands, limits, and possibilities of the microbudget, digital film paradigm.

Fall

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 5422C - Experimental Cinema

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 3

Prerequisite(s): Admitted to the Emerging Media MFA, Entrepreneurial Digital Cinema Track or C.I.

Tutorial-based studio course in which students author and apply narrative structure and production techniques to experimental film.

Spring

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 5800 - Research Methods in Film and Digital Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Film and Digital Media graduate program or C.I.

Research methodology for the study and production of film and new media.

Spring

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 5809 - Independent Cinema

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Emerging Media MFA, Feature Film Production Track or C.I.

Advanced analysis and research of independent cinema.

Occasional

College of Sciences - Nicholson School of Communication and Media

FIL 5917 - Directed Research

Nicholson School of Communication and Media

FIL 5924 - Graduate Seminar

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to MFA Film and Digital Media/Entrepreneurial Digital Cinema track, or C.I.

Strategies for a successful graduate experience, and forum for modes of inquiry, film technique, production and distribution issues; and thesis defense preparation.

Fall

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 5937 - Special Topics

Nicholson School of Communication and Media

FIL 5944 - Internship

Nicholson School of Communication and Media

FIL 6146 - Screenplay Refinement

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Emerging Media MFA program, FIL 5419 or C.I. Refining a feature film script into an effective, compelling, easy to read, and "marketable" shooting script that forms the foundation for thesis film production. May be

used in the degree program a maximum of 2 times.

Spring

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6454 - Microbudget Production Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Film and Digital Media graduate program or C.I.

Aesthetic principles as applied to production design of low-budget projects.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6596 - Advanced Directing Workshop for Film and Digital Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MFA Film and Digital Media-Entre Dig Cin track or C.I.

Advanced directorial concepts and techniques used in film to elicit, support and direct compelling film performances.

May be used in the degree program a maximum of 2 times only when course content is different.

Material and Supply Fee: \$70.00 *Fall, Spring*

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6614 - Domestic and International Models of Distribution

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Film or Digital Media graduate program or C.I.

Global media distribution business models, with emphasis on independent film distribution in a variety of markets, including theatrical, home video, and internet.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6619 - Guerilla Marketing and Models of Distribution

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Emerging Media MFA program, graduate standing, or C.I. Grass roots and non-traditional marketing strategies for film and media products. Global media distribution business models in a variety of markets.

Fall

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6640 - Microbudget Production Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Film or Digital Media graduate program or C.I.

Strategies for budgeting and scheduling low-budget films and digital media products.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6644 - Microbudget Pre-Production

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Emerging Media MFA program, FIL 6146, or C.I. Examination of pre-production issues facing filmmakers working with low budgets, with focus on creative concept, design, style, and location selection.

Fall

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6649 - Microbudget Post-Production

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Emerging Media MFA program, FIL 6644, or C.I. Continued examination of production challenges that are unique to filmmakers working with extremely limited budgets, including casting, schedules, and set management.

Spring

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6673 - Arts and Media Entrepreneurship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Emerging Media MFA program, graduate standing, or C.I. Application of core business concepts to create a company and develop a sales proposal suited to a variety of potential arts and emerging investors.

Fall

Nicholson School of Communication and Media - Department of Film and Mass Media

FIL 6908 - Independent Study

Nicholson School of Communication and Media

FIL 6918 - Directed Research

Nicholson School of Communication and Media

FIL 6938 - Special Topics/Seminar

Nicholson School of Communication and Media

FIL 6958 - Study Abroad

Nicholson School of Communication and Media

FIL 6971 - Thesis

Nicholson School of Communication and Media

Finance

FIN 5917 - Directed Research

College of Business Administration

FIN 5937 - Special Topics

College of Business Administration

FIN 6406 - Strategic Financial Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MBA Professional Core I or C.I.

Emphasis on the theory and analytical techniques associated with the major financial decisions of corporate management, including risk analysis, capital budgeting, short- and long-term financial management.

Fall, Spring

College of Business Administration - Department of Finance

FIN 6465 - Financial Analysis Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Seminar in financial analysis; examining financial statements, annual reports and other sources of information. Not open to students who have completed or are enrolled in GEB 6895.

Occasional

College of Business Administration - Department of Finance

FIN 6515 - Analysis of Investment Opportunities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, FIN 6406 or C.I.

Deals with the theory and tools of analysis required in the management of financial assets.

Fall

College of Business Administration - Department of Finance

FIN 6777 - FinTech Entrepreneurship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the FinTech MS program. Corequisite(s): FIN 6468.

This course will help students identify financial sectors that have been disrupted by FinTech or those that are ripe for disruption.

Odd Fall

College of Business Administration - Department of Finance

FIN 6778 - Foundations of FinTech

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the FinTech MS program.

This course provides an overview of the emerging Fintech discipline and how innovations and new technologies are transforming conventional financial markets and services.

Odd Spring

College of Business Administration - Department of Finance

FIN 6779 - FinTech in Decision Making

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the FinTech MS program.

The objective of this course is to provide an introduction to business intelligence and analytics applied to the financial world.

Odd Fall

College of Business Administration - Department of Finance

FIN 6909 - Research Project

College of Business Administration

FIN 6918 - Directed Research

College of Business Administration

FIN 6938 - Special Topics

College of Business Administration

FIN 6938 - Special Topics: Foundations of FinTech

3 Credit Hours

Contact Hours: 3

Prerequisite(s): FIN 6406 Strategic Financial Management.

This course provides an overview of the emerging Fintech discipline and how innovations and new technologies are transforming conventional financial markets and services.

College of Business Administration - Department of Finance

FIN 7807 - Corporate Finance Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Business doctoral program and FIN 6406 or equivalent; ECO 6416 or equivalent; or C.I.

Elaborate coverage of significant theoretical/classical literature and review of empirical literature to provide a sound framework of conceptual knowledge for doctoral students.

Odd Fall

College of Business Administration - Department of Finance

FIN 7808 - Introduction to the Theory of Finance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Business PhD program and FIN 6406 or equivalent, or C.I.

This course provides an introduction to decisions and equilibrium under uncertainty, portfolio theory, asset pricing models, option pricing, capital structure, and agency theory.

Occasional

College of Business Administration - Department of Finance

FIN 7816 - Investment Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to business doctoral program, FIN 7807, QMB 7565 , and C.I.

Extensive coverage of theoretical and empirical literature dealing with modern investment thought, portfolio theory, capital market equilibrium, and related topics.

Even Fall

College of Business Administration - Department of Finance

FIN 7845 - Empirical Methods I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Business doctoral program.

Course will provide a rigorous introduction to the modern empirical toolkit that is used in corporate finance and investments.

Fall

College of Business Administration - Department of Finance

FIN 7864 - Empirical Methods II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Admission to doctoral program; completion of FIN 7845 and FIN 7808.
Course covers advanced topics in empirical methods in studies of asset pricing and corporate finance.
Spring

College of Business Administration - Department of Finance

FIN 7919 - Research

College of Business Administration

FIN 7935 - Finance Research Forum

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Admission to Business PhD program and FIN 6406 or equivalent, or C.I.
Research and pedagogical issues in finance, including research presentations by faculty, doctoral students, and invited scholars. May be used in the degree program a maximum of 6 times.
Even Spring, Occasional

College of Business Administration - Department of Finance

FIN 7939 - Special Topics

College of Business Administration

Food Service Systems

FSS 5917 - Directed Research

Rosen College of Hospitality Management

FSS 5937 - Special Topics

Rosen College of Hospitality Management

FSS 6365 - Management of Food Service Operations

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing.
The examination of techniques and mechanisms employed in the management of food service operations. Comparisons,

case studies, and selected topics focus on private and public operations.

Odd Spring

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

FSS 6909 - Research Report

Rosen College of Hospitality Management

FSS 6918 - Directed Research

Rosen College of Hospitality Management

FSS 6938 - Special Topics

Rosen College of Hospitality Management

Foreign Language Education

FLE 5345 - Teaching World Languages in K-12 Schools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing.

Methods of teaching another language at the K-12 level within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading, writing skills, testing, and error correction.

Spring

College of Community Innovation and Education - School of Teacher Education

FLE 5917 - Directed Research

College of Arts and Humanities

FLE 5937 - Special Topics

College of Community Innovation and Education

FLE 6695 - Professional Development in Foreign Language Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): FLE 4333 Foreign Language Teaching in the Secondary School or teaching experience.

Fluency in the target language and English. Introduction to the professional development of the foreign language educator by means of instruction in action research, grant writing, and writing for publication/conference presentation.
Occasional

College of Community Innovation and Education - School of Teacher Education

FLE 6909 - Research Report

College of Arts and Humanities

FLE 6918 - Directed Research

College of Arts and Humanities

FLE 6938 - Special Topics

College of Community Innovation and Education

General Business

GEB 5516 - Technological Entrepreneurship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Focus of the course is on identification, evaluation and commercialization of new technologies. Emphasis will be placed on the legal, financial and strategy aspects of technology transfer and development.

Occasional

College of Business Administration - Department of Management

GEB 5917 - Directed Research

College of Business Administration

GEB 5937 - Special Topics

College of Business Administration

GEB 6037 - Business Foundations and Career Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Integrated Business track of the Masters of Science in Management.
Provides an introduction to the essential functions of modern business management. Students identify personal interests, knowledge, skills, and abilities and connect them to career opportunities.

Fall

College of Business Administration - Department of Management

GEB 6115 - Entrepreneurship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Seminar on topics concerning the entrepreneurial process in small and large organizations, including needs assessment, sources and methods of innovation, financing, and barriers to entrepreneurship.

Fall, Odd Summer

College of Business Administration - Department of Management

GEB 6116 - Business Plan Formation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): GEB 6115 or GEB 6518 or MBA Foundation Core.

Professional development and preparation of company business plan. Full analysis of plan and outside evaluation and ranking.

Occasional

College of Business Administration - Department of Management

GEB 6156 - The Business of Hip-Hop Innovation and Entrepreneurship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Hip-Hop culture has evolved from two turntables and a microphone to a billion-dollar industry with infinite business lessons related to innovation and entrepreneurship.

Summer

College of Business Administration - DeVos Sport Business Management

GEB 6365 - International Business Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): MBA Professional Core I.
Extensive coverage of international business environment with emphasis on the functional operation of multinational firms.
Spring

College of Business Administration - Department of Finance

GEB 6518 - Strategic Innovation

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.
An in-depth examination of strategic and innovation processes as they relate to emerging technologies from invention to commercialization.
Occasional

College of Business Administration - Department of Management

GEB 6895 - Business Intelligence

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Consent of College of Business Graduate Studies. Study of the sources, acquisition, warehousing, analysis, and application of data pertaining to business decision-making in the firm.
Occasional

College of Business Administration - Department of Management

GEB 6909 - Research Report

College of Business Administration

GEB 6918 - Directed Research

College of Business Administration

GEB 6938 - Special Topics

College of Business Administration

GEB 6949 - Cooperative Education in General Business

College of Business Administration

GEB 7911 - Structural Equation Modeling for Business Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 7423 , MAR 7626.

Applications of structural equation modeling (SEM) for business research including factor analysis, aspects of measurement theory, mathematical and technical issues about model fitting are covered.

College of Business Administration - Department of Management

GEB 7919 - Research

College of Business Administration

GEB 7939 - Special Topics

College of Business Administration

QMB 6304 - Data Visualization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course will use data visualization concepts and tools to analyze complex data sets, create visual insights that generate action using dashboards, and cover narrative and storytelling best-practices. Using data visualization software, students will create various chart types and visualization, use calculations for the purpose of data manipulation, use parameters to control data values, create visualization using geo-mapping techniques, combine data sources for blending and preparing data for analysis.

Occasional

College of Business Administration - Department of Management

General History and Historiography

HIS 5067 - Introduction to Public History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies.

Occasional

College of Arts and Humanities - Department of History

HIS 5073 - Oral History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Theories and practices of oral history. Fieldwork required.

Occasional

College of Arts and Humanities - Department of History

HIS 5083 - Cultural Heritage Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing, HIS 5067, or C.I. Readings in the debates and issues of international management of cultural heritage and property, including introduction to UNESCO standards.

College of Arts and Humanities - Department of History

HIS 5088 - Readings in Curation and Public History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Readings in the theories, principles, methods, and design for publicly engaged history content and visualization.

Even Fall

College of Arts and Humanities - Department of History

HIS 5917 - Directed Research

College of Arts and Humanities

HIS 5925 - History in the Digital Age

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Readings in the history, theory, and methodologies of digital historical practices from precedents in New Social History to the present, including use in Public History.

Even Fall

College of Arts and Humanities - Department of History

HIS 5937 - Special Topics

College of Arts and Humanities

HIS 6094 - Seminar in Curation and New Media

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Historical research and application of the theories, principles, methods, and design for visual public history projects produced through new media installations.

Odd Spring

College of Arts and Humanities - Department of History

HIS 6096 - Seminar in Historic Preservation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Seminar in the theory and work of historic preservation. Research methods, theory, law, and professional standards will be explored through student generated preservation projects.

Occasional

College of Arts and Humanities - Department of History

HIS 6159 - Historiography

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Selected topics in the study of history. May be repeated for credit.

Fall

College of Arts and Humanities - Department of History

HIS 6165 - Digital Tools for Historians

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Background, theory, and methods of digital history. Students will develop a working knowledge for evaluating and employing digital tools for historical research and presentation.

College of Arts and Humanities - Department of History

HIS 6167 - Spatial History**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Graduate Standing or C.I.

Discussion of the scholarly literature as well as the application of spatial history research, including geospatial and digital storytelling technologies. May be repeated for credit two times.

Occasional

College of Arts and Humanities - Department of History

HIS 6905 - History Capstone Class**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Satisfactory completion of 21 - 24 hours of graduate level course work.

Advanced historiographical and bibliographical readings for preliminary exams and submission of a research plan for thesis topic.

Occasional

College of Arts and Humanities - Department of History

HIS 6909 - Research Report

College of Arts and Humanities

HIS 6918 - Directed Research

College of Arts and Humanities

HIS 6938 - Special Topics

College of Arts and Humanities

HIS 6942 - Internship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Graduate internship in public history. Subject may vary. May be used in the degree program a maximum of 2 times.

Occasional

College of Arts and Humanities - Department of History

HIS 6946 - Teaching Practicum**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Student observation, participation, direction, and leadership in a college survey course. May be repeated for credit.

Occasional

College of Arts and Humanities - Department of History

Geography: Systematic**GEO 5917 - Directed Research**

College of Sciences

Gerontology**GEY 5007 - Women and Healthy Aging****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior undergraduate.

The examination of the health promotion opportunities and bio-psycho-social challenges of women as they age.

Spring

College of Nursing - Department of Nursing

GEY 5600 - Physiology of Aging**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

BSC 2010C or PCB 3703C or APK 4110C or equivalent. The purpose of this course is to develop the student's understanding of the effects of human aging on various body systems.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

GEY 5648 - Gerontology: An Interdisciplinary Approach

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

The study of aging will be presented from an interdisciplinary and multidisciplinary approach spanning the social sciences and health.

Occasional

College of Health Professions and Sciences - School of Social Work

GEY 5917 - Directed Research

College of Sciences

GEY 5937 - Special Topics

College of Sciences

GLY 5917 - Directed Research

College of Sciences

GLY 5937 - Special Topics

College of Sciences

Health Information Management

HIM 5118C - Health Care Informatics and Information Technology

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.S. in Health Care Informatics or C.I.

An overview of the current state of health care informatics including existing and future technologies. Areas of emphasis include EHR, HIE, Standards, and clinical decision making.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 5917 - Directed Research

College of Community Innovation and Education

HIM 5937 - Special Topics

College of Community Innovation and Education

HIM 6007 - Survey of Health Information Management

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Health Care Informatics or C.I.

Provide students with an understanding of computer information systems utilized in a health care environment.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6117 - Health Care Informatics Symposium

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.S. in Health Care Informatics.

The focus of this course is on applying informatics solutions to complex situations facing the U.S. health care industry and found in today's health care organizations.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6119C - Biostatistics and Decision Analysis

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.S in Health Care Informatics or C.I.

Selected decision structure and solution techniques. Selection, implementation, and results analysis of key statistical methods to support decision making and policy analysis in health care organizations.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6121C - Privacy and Security in Health Care Informatics

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Admission to the Health Care Informatics program or C.I. Focuses on privacy and security issues associated with health care information. Students will evaluate security audits, regulatory policies/laws, and release of information procedures.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6122C - System Analysis and Design

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.S. in Health Care Informatics or C.I.

Analyzing workflow in health care organizations to identify data needs and system elements to support work. Modeling system elements with a variety of traditional and object oriented tools.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6123C - Project Management in Health Care Informatics

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.S. in Health Care Informatics or C.I.

This course integrates clinical, financial and administrative data to resolve managerial and patient care problems.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6124C - Health Care Data Architecture and Modeling

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): HIM 5118C or C.I.

The course integrates the key issues and techniques surrounding data architecture, modeling and standards in health care informatics.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6125 - Health Care Informatics Capstone

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): All courses in the M.S. in Health Care Informatics program.

This course serves as a culminating experience for the HCI program. Students will apply knowledge gained in all courses to a health care informatics related area of study.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6217C - Health Care Database Management

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): HIM 5118C.

Design and implementation of relational database structures for health care operations. Use of structured query language and reporting tools to manage data.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6267 - Foundation of Health Services Administration

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Health Care Informatics or C.I.

Provides students with an understanding of the managerial and administrative aspects in a health care environment, as it relates to health care informatics.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6293 - Health Care Coding and Diagnosis

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to Health Care Informatics master's degree or HIA certificate.

Medical Coding and the role it plays in informatics emphasizing document usage and extracting needed data for proper code selection. Data mapping related to ICD-9-CM and ICD-10-CM is explored.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6464C - Epidemiology, Analytics and Quality Management

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.S. in Health Care Informatics or C.I.

This course introduces epidemiological principles and analytics for enhancing utilization management, quality improvement and outcome assessment in the service delivery system.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6477 - Medical Terminology for Informatics Professionals

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Health Care Informatics or C.I.

Provides students with medical terminology used or found in the medical environments and discuss the role the language of medicine plays in informatics.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6918 - Directed Research

College of Community Innovation and Education

HIM 6927 - MS Healthcare Informatics Orientation

1 Credit Hours

Class Hours: 30

Lab and Field Work Hours: 0

Contact Hours: 30

Prerequisite(s): Admission to M.S. in Health Care Informatics or C.I.

An orientation course designed to ensure students fully prepare for, identify, and secure an appropriate masters-level healthcare informatics internship.

Odd Fall, Even Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6935 - Seminar on Current Issues in Health Care Informatics and Enterprise Management

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): HIM 5118C; HIM 6119C; HIM 6122C; HIM 6123C.

This course provides an overview of project management and will expose students to the principles of project management and health care information systems.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6938 - ST: Informatics for Healthcare Implementation

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Current industry trends in healthcare, technology, and the automation of processes. Introduces concepts associated with algorithms, communications, and the design and development of healthcare information systems.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6947 - MS Healthcare Informatics Internship

2 Credit Hours

Class Hours: 30

Lab and Field Work Hours: 240

Contact Hours: 30

Prerequisite(s): HIM 6998, HIM 5118C, HIM 6122C and HIM 6123C.

Experiential learning course where students apply skills and competencies to solve real-world health care informatics projects of substantive value. Students must complete required hours under the supervision of an internship site preceptor.

Odd Spring, Even Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HIM 6971 - Thesis

College of Community Innovation and Education

Health Sciences

HSC 5917 - Directed Research

College of Health Professions and Sciences

HSC 5937 - Special Topics

College of Health Professions and Sciences

HSC 6570 - Clinical Nutrition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences MS or C.I.

Advanced study of the biochemical, physiological and anatomical changes associated with diseases/conditions/surgeries that require nutrition support/medical nutrition therapy.

Even Fall

College of Health Professions and Sciences - Department of Health Sciences

HSC 6597 - Human and Applied Metabolism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

The contribution of carbohydrate, fat and protein to energy metabolism at rest and during physical stress will be examined.

Fall

College of Health Professions and Sciences - Department of Health Sciences

HSC 6607 - Lifestyle Medicine

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences MS or C.I.

Examination and application of evidence-based practices focusing on modifiable behaviors associated with prevention and treatment of common chronic diseases and conditions.

Even Spring

College of Health Professions and Sciences - Department of Health Sciences

HSC 6616 - Clinical Exercise Physiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

This course is designed to give the student an understanding of the graded exercise test as a functional and diagnostic modality in normal and diseased people.

Spring

College of Health Professions and Sciences - Department of Health Sciences

HSC 6636 - Issues and Trends in the Health Professions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Exploration of current status, issues, problems, and future trends in the practice and education of health professions.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSC 6656 - Healthcare Ethics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examine and analyze central concepts and values in healthcare ethics in order to provide a foundation for sound ethical decision-making.

College of Community Innovation and Education - Department of Health Management and Informatics

HSC 6659 - Issues in Geriatric Health Care

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Health Sciences MS or C.I.

Emphasizes an evidence-based, interprofessional approach to examining and working through issues associated with aging and the impact of collaborative, interprofessional care for our aging population.

Occasional

College of Health Professions and Sciences - Department of Health Sciences

HSC 6909 - Research Report

College of Health Professions and Sciences

HSC 6911 - Scientific Inquiry in the Health Profession

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Research design and statistical evaluation in health professions.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSC 6918 - Directed Research

College of Health Professions and Sciences

HSC 6938 - Special Topics

College of Health Professions and Sciences

HSC 6949 - Cooperative Education in Health Science

College of Health Professions and Sciences

HSC 7919 - Research

College of Community Innovation and Education

HSC 7939 - Special Topics

College of Community Innovation and Education

Health Services Administration

HSA 5177 - Foundations of Health Care Finance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate program in HSA or C.I.

Preparatory course for graduate students who are not prepared to take the required health care finance course.

Occasional

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 5198 - Health Care Decision Sciences and Knowledge Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Emphasis on development of a general systematic approach to solving problems under uncertainty. The role of informatics and application of information technology in improving managerial decision making process will be presented.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 5436 - Foundations of Health Care Economics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to HSA graduate program or C.I.

Preparatory course for graduate students who are not prepared to take the required health care economics course.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 5504 - Health Care Risk Management II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

HSA 5509. The Health Care Risk Management course is comprised of a total of 12 modules addressing key areas of the field. Health Care Risk Management I covers Modules 1-6 and Health Care Risk Management II covers Modules 7-12. Students must complete both courses in sequential order in order to apply for Risk Management licensure.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 5509 - Health Care Risk Management I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Health Services Administration or C.I.

Examines background, history and philosophy of health care risk management. The Health Care Risk Management course is comprised of a total of 12 modules addressing key areas of the field. Health Care Risk Management I covers Modules 1-6 and Health Care Risk Management II covers Modules 7-12. Students must complete both courses in sequential order in order to apply for Risk Management licensure.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 5917 - Directed Research

College of Community Innovation and Education

HSA 5937 - Special Topics

College of Community Innovation and Education

HSA 6108 - Health Care Organization and Management II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HSA 6119, HSC 6636 and PHC 6160.

Emphasis on planning, development, marketing approaches, and problem solving using computer methods.

Fall, Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6112 - International Health Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status.

Survey of health care systems in developed and developing countries.

Occasional

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6119 - Health Care Organization and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Services Administration master's program.

Planning, development, and marketing methods.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6128 - Health Care Services Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Health Services Administration graduate program or C.I.

Broad perspective on conceptualization and development of marketing and customer service in health care organizations focusing on links between theory and practical applications. State-of-the-art methods from best customer service organizations will be reviewed along with impact of social media and mobile technologies on marketing.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6155 - Health Economics and Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HSA 5436 or passing grade on Economic Assessment Exam or C.I.

Examines how the interests and interactions of patients, providers, insurers, the government, and others impact the allocation and distribution of health care.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6156 - Health Care Economics and Policy

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.

Study of the economic foundations of the health care market and policy.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6175 - Advanced Trends in Health Care Finance and Management

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Admission to the Health Care Informatics master's degree or HIA certificate. Focus on areas related to overall strategy of the health care organization including decision making practices; infrastructure investment; business partnerships; management staff competencies; and financial report analysis.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6178 - Financial Management for Health Care Managers

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track; HSA 6179. Application and integration of advanced accounting and financial principles to develop solutions to specific problems encountered in today's health care organizations.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6179 - Financial Accounting for Health Care Managers

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track. Examines accounting and financial management concepts, along with managerial protocols and regulatory constraints affecting health care organizations.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6188 - Health Care Capstone and Strategic Management

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track. Concepts and course work through the lens of strategic management.

Odd Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6189 - Health Care Procedural Coding and Reimbursement

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Admission to Health Care Informatics master's degree or HIA certificate. Introduction and analysis of reimbursement systems. Focus on Current Procedural Terminology (CPT) code selection and audit tools; reimbursement methodologies; and revenue cycle management.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6195 - Management and Health Information Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Services Administration graduate program or C.I.

This course is designed to introduce students to health care information systems and current issues related to effective management of these systems and health data. Specifically, students will gain insight into clinical information systems, their implementation, and the overall importance of aligning these systems with organizational goals.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6197C - Health Care Informatics for Health Care Leaders**4 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.

Alignment of health information technology advances with the organizational strategy, including improving quality, safety and efficiency.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6342 - Health Care Human Resources**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Health Services Administration graduate program or C.I.

Study of health care organizations, including modern management, human performances, and leadership.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6345 - Leadership for Health Care Executives

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.

Addresses current leadership theory focusing on leadership styles, motivation, change management, innovation, and creativity as they relate to management of health services organizations.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6346 - Health Care Organizational Behavior and Human Resource Management

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.

Application of human resources and organizational theory in the health care setting for health care managers.

Odd Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6385 - Health Care Quality Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Health Services Administration graduate program or C.I.

Mechanisms of enhancing quality of service and care.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6505 - Health Care Quality and Risk Management

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.

Current quality-based management practices within health care organizations and effective risk management strategies for health care managers.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6512 - Health Care Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or C.I.

Practical applications of leadership theory in health services organizations.

Occasional

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6520 - Epidemiology and Health Planning

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.

Descriptive and applied methods of managerial epidemiology, including methods for data retrieval and research application.

Odd Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6536 - Health and Medical Terminology for Health Administrators

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Services Administration graduate program or C.I.

Designed to introduce students to the language of medicine and its application for health administrators using the Caduceus Medical Terminology software system.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6555 - Health Care Ethics and Law

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.
Overview of legal and ethical issues facing health care managers and providers in a variety of health care settings.
Odd Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6752 - Health Care Analytics

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Admission to Health Care Informatics master's degree or HIA certificate. Computer based course focusing on analyzing health care data including using data for decision making, process improvements, efficient health care delivery and preparing reports for other managers.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6759 - Health Care Outcomes Management

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Admission to Health Care Informatics master's degree or HIA certificate. Measure and methods of outcomes assessment and evaluation focusing on regulatory policies; use of data to investigate fraud; organizational compliance programs and health information system compliance.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6766 - Health Care Statistics and Research

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to Health Sciences M.S., Executive Health Services Administration track.
Research method techniques and statistical techniques for problem-solving and decision-making including theoretical, quantitative, and quantitative skills to understand, conduct, and evaluate health care research.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6909 - Research Report

College of Community Innovation and Education

HSA 6918 - Directed Research

College of Community Innovation and Education

HSA 6925 - Capstone in HSA

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HSA 5198, HSA 6108, HSA 6119, HSA 6128, HSA 6342, HSA 6385, HSC 6911, PHC 6164.

Case analysis approach to solving current health services administration problems and issues. Prepares students for comprehensive examination experience.

Fall, Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6930 - Health Care Management, Professional Skills Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the HSA program or C.I.

This seminar serves as a bridge between MSHSA course work and the world of practice, with a focus on developing career planning and professional skills.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 6938 - Special Topics

College of Community Innovation and Education

HSA 6949 - Cooperative Education in Health Services Administration

College of Community Innovation and Education

HSA 7116 - Theories in Healthcare Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs PhD program or C.I.

Overview of healthcare management theories/applications including resource dependence, populations ecology,

institutional structure and innovation, network, transaction costs, decision making, power and stakeholder management theories.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 7125 - Globalization and Health

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Affairs Ph.D. program or C.I. This course examines effects of globalization on health. A large focus is public health and social determinants of health, including poverty, inequality, environment and culture.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 7930 - Special Issues in Health Services Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Ph.D. program or C.I.

Selected problems in health services administration. May be repeated for credit only when course content is different.

Occasional

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 7936 - Advanced Seminar in Health Economics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I. and Microeconomics or PAF 7315 .

This advanced seminar in health economics will introduce advanced principles and methods used in economic analysis of health services.

Odd Fall

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 7938 - Advanced Seminar in Health Services Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

This is an advanced seminar in health services research. Analytical design and methods used in health services research will be applied.

Odd Spring

College of Community Innovation and Education - Department of Health Management and Informatics

HSA 7939 - Special Topics

College of Community Innovation and Education

Hospitality Management

HFT 5856 - Event Food and Beverage Strategies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HFT 3523 and HFT 3431 or C.I.

The course covers strategies required of event professionals tasked with the development and coordination of food and beverage functions in a variety of venues and settings.

Fall, Spring

Rosen College of Hospitality Management - Department of Tourism Event, and Attractions

HFT 6949 - Cooperative Education in Hotel and Restaurant

Rosen College of Hospitality Management

Hospitality Management Graduate

HMG 5907 - Independent Study

Rosen College of Hospitality Management

HMG 5917 - Directed Research

Rosen College of Hospitality Management

HMG 5937 - Special Topics

Rosen College of Hospitality Management

HMG 5944 - Internship

Rosen College of Hospitality Management

HMG 5947 - Experiential Learning Internship

Rosen College of Hospitality Management

HMG 5957 - Study Abroad

Rosen College of Hospitality Management

HMG 6002 - Advanced Event Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

HMG 6007 or C.I.

Analysis of strategic design principles including technology that affect the production of, and stakeholder experiences with, an event.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6010 - Relationship Management in Events

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

HMG 6711 or C.I.

Synthesis of relationship management constructs as they relate to the various exchanges between event industry organizers, suppliers, sponsors, and human capital.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6011 - Contemporary Issues in Event Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

HMG 6604 or C.I.

Examining and analyzing contemporary issues facing and shaping the event industry.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6012 - Events Across Borders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6741 or C.I.

Analysis of events from an international perspective including evaluation of the design, location and organization of events across international borders.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6220 - The Reflective Leader

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6796 or C.I.

Leadership through the lens of reflective learning skills, connecting theory with practice and thought with transformative action, to facilitate event strategy development and implementation.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6227 - Advanced Training and Development in the Hospitality Industry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

This course is designed to give students detailed information on developing, delivering, assessing, and evaluating training and development programs for various segments of the hospitality industry.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6228 - Critical Issues in Hospitality Human Resources

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate student status.

Analysis of HR critical factors affecting operation and profitability of hospitality enterprises. Examination of emotional labor, empowerment, burnout, service orientation, turnover, absenteeism, compensation.

Fall, Spring

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6229 - Corporate Social Responsibility and Ethics in the Hospitality and Tourism Industry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing.

An interactive approach to the impact of corporate social values and ethical strategy on management of hospitality and tourism enterprises.

Odd Fall

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6245 - Managing Hospitality and Guest Services Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Analysis of the unique problems of managing organizations in hospitality and guest services industry.

Fall

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6247 - Organizational Communication in Hospitality/Tourism Enterprises

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Developing the ability to view communication as an essential skill for demonstrating the knowledge in the areas of hospitality of guest service management, hospitality marketing, and hospitality finance and accounting.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6251 - The Management of Lodging Operations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into the graduate program.

Presentation and analysis of the unique management techniques applicable in the diverse segments of the lodging industry.

Fall, Spring

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6267 - Case Studies in Restaurant Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This elective course will allow students to apply the principles of management, analysis, and planning that they have learned in their prior coursework to issues in multi-unit restaurant operations.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6477 or C.I.

Focus on creating, developing, and designing a unified concept plan, business plan, and investment proposal for a new hospitality business enterprise.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6296 - Hospitality/Tourism Strategic Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Enrollment limited to graduating Hospitality Management graduate students.

Capstone experience with strategic decision-making principles in hospitality/tourism. Application of skills, knowledge and understanding of areas of concern for formulating and implementing operational strategies.

Fall, Spring, Summer

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6347 - Contemporary Issues in the Resort Industry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate level standing

In-depth study of the tools and techniques available for project feasibility and investment.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6446 - Hospitality/Tourism Information Technology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate student status.

Analysis and design of hospitality/tourism industry information systems. Data management, system implementation and current trends in hospitality/tourism technology are discussed.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6449 - Smart Travel and Tourism**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 2023, CAP4630 or STA 3032.

This course surveys SMART technologies and applications in the travel and tourism industry, emphasizing the systems view of the interactions among humans, environment, and technology.

Spring

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6466 - Applied Revenue Management Techniques in Hospitality**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Builds upon revenue management fundamentals in hospitality and tourism organizations to develop advanced revenue management techniques in optimization, customer segmentation, forecasting and pricing analytics.

Odd Spring

Rosen College of Hospitality Management - Dean's Office

HMG 6476 - Feasibility Studies for the Hospitality/Tourism Enterprises

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Exploration of the many and varied facets of the economic decision making process as it applies to hospitality projects. Components of a financial feasibility study are analyzed as an aid to the decision making process of an investment in the hospitality industry.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6477 - Financial Analysis of Hospitality Enterprises

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Specialized accounting and finance tools of analysis as related to the hospitality industry. Application of budgeting and pricing models, break-even analysis and internal control.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6507 - Event Trends, Technology and the Macroenvironment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the M.S. in Event Leadership.

Analysis of how macroenvironmental forces affect the event industry with special attention to technology, sustainability and social responsibility.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6528 - Convention and Conference Sales and Services

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

A process-oriented approach to selling to the convention/conference market and servicing their events. Analyzes the

differences between and among venues and markets.

Occasional

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6529 - Contemporary Issues in Resort Sales Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 0

Prerequisite(s): Graduate level standing.

Application and analysis of competitive sales management strategies via critical thinking models, decision-making simulations, and field operation procedures commonly used to manage the sales process. Occasional.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6533 - Hospitality/Tourism Industry Brand Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This elective course will introduce graduate students to critical topics, both theoretical and applied, that demonstrate why brands are important to consumers of hospitality and tourism services and, consequently, for the successful management of hospitality and tourism corporations.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6556 - Digital Marketing and Big Data Management for Hospitality and Tourism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

HMG 6446 or Graduate Director Permission.

Overview of the utilization and application of digital marketing and big data management in the hospitality industry.

Fall

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6563 - Marketing of Events

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

HMG 6350 or C.I.

Advanced marketing principles, practices and strategies related to the positioning, branding, promotion, and marketing of events.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6565 - Social Media in Hospitality and Tourism**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6446 or Graduate Director Permission.

Analysis of hospitality/tourism industry social media marketing and management strategies.

Spring

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6566 - Principles of Destination Marketing and Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6596.

Examines strategies for creating integrated destination marketing and management systems; concepts and strategies for destination competitiveness and sustainability; trends/challenges influencing destination marketing and management.

Occasional

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6568 - Destination Planning for Events**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

HMG 6563 or C.I.

Principles, issues, and strategies related to destination policy-making, planning, and management to develop, attract, and retain events at destinations.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6584 - Event Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6564 or C.I.

Identify, collect, describe, and analyze data using data analytics techniques to make informed decisions in the specific context of event management.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6585 - Data Analysis in Hospitality and Tourism Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing in Hospitality Management or C.I. Examination of quantitative methods applied in hospitality and tourism research, including identification of data analysis strategies and interpretation of finds. Emphasis on univariate data analyses.

Fall, Spring

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6586 - Research Methods in Hospitality and Tourism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Hospitality Management or C.I.

A survey of primary research methods used by decision makers in the various sectors of the hospitality and tourism industry. Formulation of research problems, statement of hypotheses, variables and level of measurements, research designs, data collection techniques, sampling, data processing, and information analysis.

Spring

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6596 - Strategic Marketing in Hospitality and Tourism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

An examination of the role of marketing strategy within the overall strategic planning process of hospitality/tourism organizations. Topics such as marketing environments, competition analysis, consumer behavior, product/service mix, differentiation, segmentation, target marketing, positioning, relationship marketing, and strategic alliances are studied and analyzed.

Fall, Spring, Summer

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6604 - Legal Environment of Events

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6582 Event Analytics or C.I.

Survey of the laws and regulations relating to events such as public liability and insurance, compliance, technology and intellectual property, labor and employment.

Every Semester

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6608 - Hospitality/Tourism Law and Ethics Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

An interactive approach to the impact of changing social values, current legislation, and case law on management of hospitality and tourism enterprises. Professional Code of Ethics as applied to the hospitality industry are discussed.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 6710 - International Tourism Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

A review and critical analysis of the issues and techniques of international tourism management with specific attention to the economic, sociocultural, and environmental impacts.

Fall

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6738 - Tourism Industry Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Quantitative impact analysis of tourism as an industry in the regional/national economy along the Tourism Satellite Accounts concept.

Occasional

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6756 - Mega-Events

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HMG 6797.

The organization and administration of mega-events. The tourism impacts of the events on the destinations that host them.

Occasional

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6757 - Advanced Theme Park and Attraction Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The course examines and reviews the managerial and guest aspects of the theme park and attraction industry, including theming, operation, marketing, human resources, and research.

Fall

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6797 - Event Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Examination of event management, focusing on sports and entertainment. Covers promotion, budgeting, marketing, crowd control, production, legal issues, customer service, ticketing and concessions.

Occasional

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 6810 - Food Supply Chain Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Food supply chain management and theory, examining strategic sourcing, pricing, negotiation, distribution, technology, stakeholder relationships, and quality control related to perishable foodservice products.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6811 - Beverage Supply Chain Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

The examination of the alcoholic beverage supply chain in the USA, including the three-tier system, license and control models, logistics, legal and compliance issues.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6908 - Independent Study

Rosen College of Hospitality Management

HMG 6909 - Research Report

Rosen College of Hospitality Management

HMG 6918 - Directed Research

Rosen College of Hospitality Management

HMG 6938 - ST: Food Supply Chain Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Introduction to food supply chain management and theory, examining strategic sourcing, pricing, negotiation, distribution, technology, stakeholder relationships, and quality control related to perishable foodservice products.

Spring

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 6946 - Internship

Rosen College of Hospitality Management

HMG 6958 - Study Abroad

Rosen College of Hospitality Management

HMG 6971 - Treatise (Thesis OF Research Report)

Rosen College of Hospitality Management

HMG 6973 - Thesis-Specialist

Rosen College of Hospitality Management

HMG 7258 - Strategies and Tactics: Lodging

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Hospitality Education track to the PhD in Education.

Extensive review of the theoretical and empirical literature related to current strategies and operations of lodging enterprises throughout the world.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 7295 - Theories in Hospitality and Tourism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Doctoral standing. Theory construction in hosp, tourism and service; identification of relevant interdisciplinary paradigms in theory development; evaluation of theory and research models in social science research.

Fall

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 7546 - Strategies and Tactics: Guest Service Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Hospitality Education track to the PhD in Education.

Comprehensive review of the theory, methods, and research findings related to the management of guest service organizations, with special emphasis on hospitality and tourism enterprises.

Occasional

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 7587 - Foundations in Hospitality and Tourism Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Ph.D. Education Hospitality Education track, C.I.

Facilitates the introduction of hospitality and tourism research across a broad expanse of industry sectors including but not limited to attractions, events, leisure, foodservice and lodging.

Odd Fall

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 7588 - Research Seminar in Hospitality and Tourism

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to the Ph.D. Education Hospitality Education track, C.I.

This course includes the presentation of, exposure to and professional critique of current research projects by students.

Even Fall

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 7589 - Advanced Research Methods in Hospitality and Tourism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDF 7403, EDF 7463, C.I.

Facilitates creating, developing, and solving research problems through the application of appropriate research methods to contemporary issues in the hospitality and tourism industry.

Odd Fall

Rosen College of Hospitality Management - Department of Hospitality Services

HMG 7715 - Strategies and Tactics: Travel and Tourism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Hospitality Education track to the PhD in Education.

An in-depth investigation of the various components of travel and tourism focusing on the role of policy in their operation and development.

Occasional

Rosen College of Hospitality Management - Department of Tourism Event and Attractions

HMG 7876 - Strategies and Tactics: Foodservice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Hospitality Education track to the PhD in Education.

Extensive review of the theoretical and empirical literature related to current strategies and operations of food service enterprises throughout the world.

Occasional

Rosen College of Hospitality Management - Department of Foodservices and Lodging Management

HMG 7919 - Research

Rosen College of Hospitality Management

HMG 7939 - Special Topics

Rosen College of Hospitality Management

HMG 7980 - Dissertation

Rosen College of Hospitality Management

Human Nutrition

HUN 5247 - Principles of Human Nutrition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

Course promotes in-depth understanding of the role of macronutrients in human nutrition and health enabling graduates to integrate knowledge into other aspects of their work.

Occasional

College of Health Professions and Sciences - Department of Health Sciences

HUN 5917 - Directed Research

College of Nursing

HUN 6909 - Research Report

College of Nursing

HUN 6918 - Directed Research

College of Nursing

HUN 6938 - Special Topics

College of Nursing

Humanities**HUM 5396 - Place and Space****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Study of theoretical and applied issues of place and space.

Occasional

College of Arts and Humanities - Department of Philosophy

HUM 5917 - Directed Research

College of Arts and Humanities

HUM 5937 - Special Topics

College of Arts and Humanities

Industrial and Applied Psychology

INP 5917 - Directed Research

College of Sciences

INP 5937 - Special Topics

College of Sciences

INP 6005 - Overview of Research in Industrial and Organizational Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to masters or doctoral program in Industrial/Organizational Psychology, or CI.

Designed to familiarize graduate students with the core research topics of interest to contemporary I/O psychologists.

Odd Fall, Even Fall

College of Sciences - Department of Psychology

INP 6058 - Job Analysis and Performance Appraisal

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Industrial Organizational Psychology M.S. or C.I.

Theory and practice in collection, analysis, and use of job analysis data; survey of theories, research and practice in the areas of industrial/organizational performance appraisal.

Occasional

College of Sciences - Department of Psychology

INP 6072 - Survey Research Methods and Program Evaluation in Indust. and Org. Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PSY 6216C and admission to master's program in Industrial and Organizational Psychology or Ph.D. in Psychology or C.I.

Applied issues in the evaluation of programs/interventions and survey design, sampling, and data analysis in organizations.

Occasional

College of Sciences - Department of Psychology

INP 6080 - Ethical, Legal, and Professional Issues in Industrial and Organizational Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to master's program in Industrial and Organizational Psychology, Psychology Ph.D., or C.I. A review of the applied behavioral problems recurrent in the professional practice of Industrial and Organizational Psychology.

Occasional

College of Sciences - Department of Psychology

INP 6091 - Industrial and Organizational Psychology Consulting Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission into the M.S. Industrial/Organizational Psychology program. Develop consulting skills in I/O psychology by applying theories and methods to improve individual, group, and organizational effectiveness.

Fall

College of Sciences - Department of Psychology

INP 6215 - Assessment Centers and Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate admission and C.I.

Survey of assessment center technology and application with emphasis on leadership theory and practice.

Occasional

College of Sciences - Department of Psychology

INP 6317 - Work Motivation and Job Attitudes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Industrial Organizational Psychology M.S. or Ph.D., or Modeling and Simulation M.S. or

Ph.D., or Applied Learning and Instruction M.A., or C.I.

Review of theories, research and application of psychological principles to organizational settings, including human motivation and job attitudes.

Occasional

College of Sciences - Department of Psychology

INP 6318 - Recruitment, Placement and Selection

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PSY 6308C and admission to Industrial and Organizational Psychology M.S., or C.I.

Issues related to recruiting, placing, and selecting employees and an examination of currently used tests in industry.

Occasional

College of Sciences - Department of Psychology

INP 6605 - Training and Team Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Industrial Organizational Psychology M.S., Psychology Ph.D., or C.I.

Survey and theory of training and small groups including team effectiveness and team performance within applied contexts.

Occasional

College of Sciences - Department of Psychology

INP 6909 - Research Report

College of Sciences

INP 6918 - Directed Research

College of Sciences

INP 6933 - Seminar in Industrial and Organizational Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Industrial and Organizational Psychology Master's, Psychology Ph.D., or C.I.

Selected topics in industrial and organizational psychology. May be used in the I/O M.S. degree program one time, and

may be used in I/O Ph.D. a maximum of 6 times. May be used in the Ph.D. degree program a maximum of 6 times.
May be used in the degree program a maximum of 6 times.

Occasional

College of Sciences - Department of Psychology

INP 6938 - Special Topics

College of Sciences

INP 6945C - Industrial Psychology Practicum

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 6

Contact Hours: 7

Admission to Industrial Organizational Psychology M.S. or C.I. Supervised placement in an applied setting.

Occasional

College of Sciences - Department of Psychology

INP 7071 - Research Methods in Industrial and Organizational Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the doctoral Industrial and Organizational Psychology program and PSY 6216C.
A review of research methodology in organizational settings, focusing on hypothesis testing, quasi-experimental designed, non-experimental designs, and sampling procedures.

Occasional

College of Sciences - Department of Psychology

INP 7081 - Professional Issues in Industrial and Organizational Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in the doctoral program in Industrial Organizational Psychology or C.I.
Ethical principles, standards, and laws guiding professional behaviors and psychological practice.

College of Sciences - Department of Psychology

INP 7089 - Human Factors Professional Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Human Factors PhD program.

Ethical principles of psychologists, code of conduct, grant/proposal writing, publication of research, academic and applied career paths, licensing requirements, and job search/preparation.

Even Spring

College of Sciences - Department of Psychology

INP 7214 - Industrial Psychology I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the doctoral Industrial and Organizational Psychology program or C.I.

Review of the theoretical and practical issues and the research literature related to criterion development and personnel selection.

Odd Spring

College of Sciences - Department of Psychology

INP 7251 - Industrial Psychology II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the doctoral Industrial and Organizational Psychology program or C.I.

Review of the theoretical and practical issues and the research literature related to retaining, theory and program design/evaluation and performance appraisal/feedback.

Occasional

College of Sciences - Department of Psychology

INP 7310 - Organizational Psychology I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the doctoral Industrial and Organizational Psychology program. Review of the theoretical and practical issues and research literature related to work motivation theory, attitude theory, and decision theory.

Fall

College of Sciences - Department of Psychology

INP 7311 - Organizational Psychology II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the doctoral Industrial and Organizational Psychology program or C.I.

Review of the theoretical and practical issues and research literature related to small group theory and process and organization theory.

Occasional

College of Sciences - Department of Psychology

INP 7919 - Directed Doctoral Study in Industrial and Organization Psychology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the doctoral Industrial and Organizational Psychology program.

Directed study in areas of organization development theory, career development theory consumer behavior, individual assessment, or other relevant topics in Industrial and Organizational psychology. May be repeated for credit.

Occasional

College of Sciences - Department of Psychology

Industrial Engineering**EIN 5108 - The Environment of Technical Organizations****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or CI; EGS 4624 recommended.

Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5115 - Engineering MIS Control Systems in Healthcare**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Consideration is given to the organizational, managerial, and economic aspects of MIS design, implementation and use for planning and control functions in large-scale Health Systems.

Summer

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5117 - Management Information Systems I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5140 - Project Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control.

Fall, Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5248 - Ergonomics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EIN 4360 or C.I.

Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the design of industrial tools, equipment, and workstations.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5251 - Usability Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 or equivalent.

Usability paradigms/principles; cognitive walk-throughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques; query techniques; laboratory techniques; and field study approaches.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5255C - Interactive Simulation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Graduate standing or C.I.

Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5346 - Engineering Logistics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ESI 5306 or ESI 4312. Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5356 - Cost Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Cost estimation and control of engineering systems throughout the product life cycle.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 5917 - Directed Research

College of Engineering and Computer Science

EIN 6182 - Engineering Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EIN 5140, EIN 5108, EIN 6370.

Capstone investigation and analysis of topics for improving engineering enterprises in national and international competitive environments. Quantitative engineering tools/methods will be used.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6215 - System Safety Engineering and Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Occupational injury and accident statistic. Accident investigation and prevention methods. Hazard analysis.

Occupational safety and health standards and regulations. Product safety and liability.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6258 - Human Computer Interaction**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Computer task analysis, human-computer design guidelines and history, usability testing, next generation user interfaces, human-virtual environment interaction.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6271 - Human Reliability**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 5219.

Methods for analysis and quantification of human performance; human error probability; applications to design and analysis of new and redesign of existing aviation, industrial, management, and power generation systems.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6326 - Technology Strategy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status.

This course is designed to expose engineering management students to cutting edge tools and concepts for managing technology and product strategy. May be repeated for credit.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6336 - Production and Inventory Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EIN 4333C or equivalent.

Review of models and techniques used in forecasting, production control and inventory control. Includes aggregate planning, production scheduling, inventory management, models, etc.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6339 - Operations Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EIN 6357, ESI 5306, or C.I.

Methods and models for design, management, and control of operational processes in engineering and technical organizations. Includes considerations of quality, productivity, performance, benchmarking, constraints, and strategy.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6357 - Advanced Engineering Economic Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3613; STA 3032 or equivalent.

Topics include measuring economic worth, economic optimization under constraints. Analysis of economic risk and uncertainty, foundations of utility functions.

Fall, Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6358 - Engineering Economic Analysis in Health Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Prerequisite(s): Admission to the Healthcare Systems Engineering track of the Industrial Engineering MS program.

Topics include Grossman's model on health economics, economics, economic optimization, economic risk, and uncertainty, utility functions, and the allocation of resources within health systems.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6370 - Innovation in Engineering Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Explores techniques for innovation and presents methods for engineers to foster innovation when designing new products or systems.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6528 - Simulation Based Life Cycle Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EIN 5255C or DIG 5875C or EIN 5117.

This course examines the phenomenon of simulation based life cycle engineering. Case studies illustrate infrastructure and organization change necessary to gain operational and strategic advantage.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6893 - Healthcare Systems Engineering Capstone

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Previous 9 courses of the HSE MS.

Capstone course to depict role of a healthcare systems engineer with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance.

Fall, Summer

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6909 - Research Report

College of Engineering and Computer Science

EIN 6918 - Directed Research

College of Engineering and Computer Science

EIN 6936 - Seminar in Advanced Industrial Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Topical seminar. Potential topic areas include quality function deployment, axiomatic design, design quality, benchmarking, re-engineering processes.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 6938 - Special Topics

College of Engineering and Computer Science

EIN 6950 - Industrial and Systems Engineering Capstone

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ESI 6551 and (ESI 5219 or ESI 6247) and department consent. Project-based course where students work on theoretical and applied research issues related to industrial and systems engineering.

Fall, Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

EIN 7919 - Research

College of Engineering and Computer Science

Industrial/Systems Engineering

ESI 5219 - Engineering Statistics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Discrete and continuous probability distributions, hypothesis testing, regression, nonparametric stats and ANOVA.
Fall, Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5227 - Total Quality Improvement

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 or equivalent.

Quality improvement (QI) tools and techniques, advanced QI techniques, quality improvement systems, total quality management concepts and implementation, planning and management tools, and case studies.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5236 - Reliability Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 4234 or equivalent, or C.I.

Reliability theory and modeling approaches. Topics include: failure data analysis, maintainability, reliability standards (DOD), software reliability, reliability in design, and electronic systems reliability.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5250 - Engineering Statistics in Health Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Healthcare Systems Engineering track of the Industrial Engineering MS Program.

Data collection, descriptive statistics, discrete and continuous probability distributions, sampling techniques, statistical estimation, hypothesis testing, regression, nonparametric stats and ANOVA applied to Health Systems.

Fall, Summer

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5306 - Operations Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032.

Methods of operations research, including formulation for models and derivation of solutions; linear programming, network models queueing theory, simulation, and nonlinear optimization techniques.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5359 - Risk Assessment and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 5219 or STA 3032.

Problems and complexities involved in risk assessment and management. Selected methodologies are illustrated through realistic applications in engineering and the sciences.

Occasional

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5526C - Discrete Event Simulation in Health Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Prerequisite(s): ESI 5219 (or equivalent statistics course)

Topics include operational modeling of patient flow, provider assignment, facility and asset utilization, care protocol planning, and optimization through Health Technology Assessment in Health Systems.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5531 - Discrete Systems Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032.

Methods for performing discrete systems simulation, including network modeling, will be treated.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 5917 - Directed Research

College of Engineering and Computer Science

ESI 5937 - Special Topics

College of Engineering and Computer Science

ESI 6217 - Statistical Aspects of Digital Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 5219 or C.I.

Statistical issues in digital simulation including input data analysis, pseudorandom number generation, experimental design, and simulation output analysis.

Odd Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6224 - Quality Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 or equivalent or C.I.

Philosophy and concepts of quality management, organization for quality, quality cost, quality audits and corrective actions, tools and techniques for improvement.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6225 - Quality Design and Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 or equivalent.

Concepts and methods for quality design and control, including statistical process control (SPC), control charts, process capability, product and process design and improvement, Taguchi methods, case studies. May be repeated for credit.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6247 - Experimental Design and Taguchi Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 or ESI 4234.

Introduction to Taguchi Concepts and Methodologies, use of design of experiments for quality design and improvement.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6251C - Engineering Quality in Health Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Risk Assessment and Management in Health Systems and Advanced Engineering Economics in Health Systems.

Topics include quality management in health systems, engineering roles for the organization, quality costing, quality auditing, and corrective action activities; including tools and techniques for improvement.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6252C - Managing Engineering Risk in Health Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Healthcare Systems Engineering track of the MS in Industrial Engineering program in the UCF College of Engineering and Computer Science.

Topics include risk assessment, management, spectrum of risks for near miss and adverse event management. Selected methodologies are illustrated through realistic applications in Health systems.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6261 - Service System Quality Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 3032 or equivalent or C.I.

Philosophy and concepts of managing, organizing, planning, controlling and motivating for quality, quality cost, tools, and techniques for improvement, special topics in travel and analytics.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6336 - Queueing Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 5219.

Analysis of queueing systems and waiting line problems using analytical and Monte Carlo methods. Laboratory assignments.

Odd Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6358 - Decision Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 4312 or ESI 5306.

Classical Bayesian analysis; utility and its measurement; multiattribute utility methods; influence diagrams; Analytic Hierarchy Process; behavioral aspects; simulation.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6418 - Linear Programming and Extensions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 4312 or **ESI 5306** .

Simplex and Revised Simplex Method; interior-point methods; duality; large-scale optimization; decomposition algorithms; upper bounds; linearization; parametric LP; goal programming.

Even Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6511 - Systems Integration and Testing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 6552.

This course focuses on the application of systems engineering principles to the integration and test and evaluation of system elements and, ultimately, of the total system.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6532 - Object-Oriented Simulation**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Object-oriented modeling and development techniques for building large process-based discrete event simulation models. Concurrency in discrete event simulation. Object-oriented simulation environment.

Even Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6534 - Agent-Based Modeling of Social Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing.

The goal of this course is to teach students the fundamentals methods for building Agent-Based Models of social, economic, and engineered systems

Even Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6535 - Advanced Agent-Based Modeling**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This course discusses advanced methods for building agent-based models of social, economic, biological and engineered systems. Methods include machine learning, data science, network science, and inverse generative processes.

Even Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6550 - Systems Thinking in Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

ESI 6551 or C.I.

This class shows how it is possible to use system thinking in order to properly define, conceive, develop, and articulate complex systems and explore 2nd and 3rd order effects of their behavior.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6551 - Systems Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing with an earned graduate degree in a technical discipline (waivable for significant industry experience).

Introduction to heuristics approach to the process of systems architecting in business, economics, social, urban, military and government domains emphasizing the conceptual representation and acceptance phases.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6552 - Systems Architecture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

ESI 6551.

This course discusses the processes and fundamentals of system architecting to include software such as SysML, modeling system, requirements, structure, and behavior.

Spring

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6609 - Industrial Engineering Analytics for Healthcare

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ESI 5219 or C.I. Course includes an overview of major data analytics algorithms and methods introduced through examples from Healthcare.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6891 - IEMS Research Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ESI 5219.

Assist students in producing publishable research and to introduce new tools which may be needed for collection and analysis of research data.

Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6909 - Research Report

College of Engineering and Computer Science

ESI 6918 - Directed Study

College of Engineering and Computer Science

ESI 6938 - Seminar in Advanced Industrial Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

This course will teach advanced methods and applications in the field of agent-based modeling, simulation and analysis.

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 6938 - Special Topics

College of Engineering and Computer Science

ESI 7480 - Optimization and Data Mining for Industrial Engineers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ESI 5306 or ESI 6418. The course introduces basic optimization theory and related data analysis algorithms for industrial engineering and data mining applications.

Odd Fall

College of Engineering and Computer Science - Department of Industrial Engineering and Management Systems

ESI 7919 - Research

College of Engineering and Computer Science

Information Systems Management

ISM 5917 - Directed Research

College of Business Administration

ISM 5937 - Special Topics

College of Business Administration

ISM 6327 - Foundations of Cybersecurity and Privacy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the graduate college.

This course will introduce foundational terminology related to information technology (IT), information systems (IS), and information security (InfoSec). Students will become familiar with IT risk and security management, data privacy, and technologies for assessing network security.

Occasional

College of Business Administration - Department of Management

ISM 6328 - Cyber Risk Assessment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): ISM 6327 or equivalent as determined by instructor.

Identification of risks associated with the functioning of modern, technology-enabled organizations and systems, technical and nontechnical. Alignment of cyber risk management frameworks with business goals.

Odd Spring, Even Spring

College of Business Administration - Department of Management

ISM 6375 - Cyber Management and Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): ISM 6327 or equivalent as determined by instructor; and ISM 6328 Cyber Risk Assessment. Development, implementation, maintenance, and leading of modern organizational cyber strategies, structures, and programs in alignment with organizational goals; effective responses to adverse cyber events.

Odd Fall, Even Fall

College of Business Administration - Department of Management

ISM 6918 - Directed Research

College of Business Administration

ISM 6938 - Special Topics

College of Business Administration

ISM 6938 - ST: Cyber Management and Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): ISM 6327 or equivalent as determined by instructor and ISM 6328 (ISM 6938). Development, implementation, maintenance, and leading of modern organizational cyber strategies, structures, and programs in alignment with organizational goals; effective responses to adverse cyber events.

N Fall

College of Business Administration - Department of Management

ISM 6938 - ST: Cyber Risk Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): ISM 6327 or equivalent as determined by instructor. Identification of risks associated with the functioning of modern, technology-enabled organizations and systems, technical and nontechnical. Alignment of cyber risk management frameworks with business goals.

N Spring

Interdisciplinary Computing

IDC 5602 - Cybersecurity: A Multidisciplinary Approach

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Interdisciplinary MandS fundamentals as applied to cybersecurity including operating system installation and administration for hardware, network architectures, configurations, behavioral aspects, organizational continuity planning, security management.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDC 6600 - Emerging Cyber Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Interdisciplinary discussion of emerging issues with expert speakers from industry. Preparation of topic and required resources to complete a multi-disciplinary Modeling and Simulation capstone project.

Summer

College of Graduate Studies - Interdisciplinary Grad

IDC 6601 - Behavioral Aspects of Cybersecurity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDS 5602 or C.I.

Interdisciplinary human, social, and behavioral issues related to cybersecurity. Management techniques, motives for cyber crimes, risk and threat analysis, ethics, and legal issues.

Summer

College of Graduate Studies - Interdisciplinary Grad

IDC 6602 - Usable Cybersecurity and Privacy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Introduces usability problems in security and privacy, and surveys state-of-the-art techniques and evaluation methodologies to design usable security and privacy systems.

Odd Spring, Even Spring

College of Graduate Studies - School of Modeling, Simulation, and Training

IDC 6700 - Interdisciplinary Approach to Data Visualization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

ESI 5219, STA 5206, or DIG 5876 , or C.I. A hands-on, interdisciplinary perspective on basic principles and fundamentals of visualizing statistical information. Topics include: effective visualizations, perception, representation, and general principles.

Spring

College of Graduate Studies - Interdisciplinary Grad

Interdisciplinary Sciences

IDS 6938 - Stereoscopy for Art and Science Using 3D Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Hands-on use of large 3D applications, such as MAYA and NUKE, to explore how stereoscopic 3D (S3D) can further enhance engineering-related problems and scientific query. Additionally, the emerging field of stereoscopic art is addressed.

Fall

College of Graduate Studies - School of Modeling, Simulation, and Training

ISC 5404 - Fundamentals of Discipline Based Education Research in STEM Disciplines

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing, or C.I.

Fundamental topics and methodologies in the field of discipline based education research, focusing specifically

on STEM disciplines.

Odd Fall, Even Fall

College of Sciences - Department of Physics

ISC 6146 - Environmental Education for Educators

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Graduate standing and a valid Florida Teaching Certificate or C.I.

Emphasizes the importance of environmental education in the school curriculum. Includes facilitator training in national environmental education programs.

Summer

College of Community Innovation and Education - School of Teacher Education

ISC 6416 - History of Physical Science and Cultural Connections

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate standing, C.I.

This course is designed for graduate students in science who wish to know something about the "who, how, why, when and where " of physics.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

Interdisciplinary Studies

IDS 5127 - Foundation of Bio-Imaging Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Fundamental theory, design, and practice of modern bio-imaging techniques used for basic biomedical research applications.

College of Medicine - Department of Molecular and Microbiology

IDS 5142 - Modeling and Simulation for Instructional Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Graduate standing or C.I. Interdisciplinary aspects of MandS applications for instructional design. Emphasis on domains such as aviation, space, military, healthcare, education, hospitality, entertainment, and cybersecurity.

Summer

College of Graduate Studies - Interdisciplinary Grad

IDS 5741 - Modeling Neuronal Systems

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Brain-inspired artificial intelligence. Study in cognitive computational neuroscience, deep learning, and how the fields are ripe for convergence.

Occasional

College of Graduate Studies - School of Modeling, Simulation, and Training

IDS 6126 - Interdisciplinarity

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course examines the history and challenges of interdisciplinary teaching and scholarship. We start by posing the question, "What is a discipline?" Then we will explore various interdisciplinary approaches and scholarship. Our final goal is for each student to present an interdisciplinary research proposal that will guide their work on their Interdisciplinary Studies MA or MS thesis.

Fall, Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6145 - Simulation Techniques

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): DIG 5876 or ESI 5219 or STA 5205 or C.I.

Foundations, examples, hands-on tools to implement solutions to various problems using three different categories of simulation: discrete event simulation, continuous simulation, and agent-based simulation.

Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6146 - Modeling and Simulation Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An overview of issues, techniques and tools that impact the design, development, verification, and validation of simulation systems.

Summer

College of Graduate Studies - Interdisciplinary Grad

IDS 6147 - Perspectives on Modeling and Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Perspectives on the theory and practice of modeling and simulation with emphasis on specific topics of current interest.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6148 - Human Systems Integration for Modeling and Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Covers general process of the human systems integration approach for modeling and simulation systems. Addresses standards, analysis tools and techniques for developing systems-level solutions.

Summer

College of Graduate Studies - Interdisciplinary Grad

IDS 6149 - Modeling and Simulation for Test and Evaluation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

Modeling and simulation for test planning, execution, and evaluation will be described, characterized, and illustrated with real-world examples and case studies.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6209 - Introduction to Electrochemical Energy Conversion and Storage

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PSM or MS in Nanotechnology or C.I.

Topics in nanotechnology, materials science and electrochemistry concerning renewable energy generation and storage. Electrochemical systems and their applications in renewable energy generation and storage.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6250 - Introduction to Nanoscience and Nanotechnology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Professional Science Master's in Nanotechnology or C.I. A general overview of nanomaterials and nanodevices, including their synthesis, new properties and applications.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6251 - Computation, Simulation and Modeling in Nanotechnology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Professional Science Master's in Nanotechnology and background in chemistry and computer science, or C.I. Modeling methods and computational approaches applicable to nanotechnology problems.

Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6252 - Biomedical Nanotechnology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Professional Science Master's in Nanotechnology and IDS 6250, UG General and Organic Chemistry, or C.I. Synthesis and properties of nanomaterials related to biomedical applications, nanotechnology for in vitro and in

vivo diagnostics, and therapeutics.

Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6253 - Bioanalytical Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Professional Science Master's in Nanotechnology and IDS 6250, or C.I. Analytical technologies and products for biomolecular detection and analysis, nanotechnology-based medical diagnostics.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6254 - Nanofabrication and Characterization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Professional Science Master's in Nanotechnology and IDS 6250, or C.I. Techniques for fabrication and characterization of nanoscale materials, nanoelectronics and devices.

Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6255 - Nanotechnology in Energy and Sustainability

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Professional Science Master's in Nanotechnology or C.I. Energy generation and storage, sustainability of materials and device fabrication and deployment, application of nanotechnology in improving the device efficiency in energy generation and storage.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6256 - Principles of Nanostructure Quantum Well, Wires, and Dots

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the PSM or MS in Nanotechnology and Intro Nanosci Nanotech, or C.I. Introduction to low dimensional semiconductor devices based on quantum wells, dots and wires; approximate and numerical device modeling.

Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6257 - Principles and Techniques of Nanobiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Nanotechnology PSM or MS program, or C.I. This course aims to integrate multi-disciplinary approaches covering physics, biology, and nanoscience to understand how living system works at the nanoscale.

Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6258 - Advanced Materials and Nanotechnology for Rechargeable Batteries

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PSM in Nanotechnology and IDS 6250 , or C.I.

Build a bridge between nanomaterials and electrochemical energy storage performance and demonstrate renewable energy storage on the nanoscale.

Odd Spring, Even Spring

College of Graduate Studies - NanoScience Technology Center

IDS 6259 - Advanced Energy-Efficient Nanoelectronic Devices

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PSM or MS in Nanotechnology or C.I.

Discusses low power nanoelectronic devices that can meet the need of future electronics by using novel physical mechanisms of current conduction.

College of Graduate Studies - Interdisciplinary Grad

IDS 6260 - Electrical and Optical Properties of Nanoscale Materials and Devices

3 Credit Hours

Class Hours: 2.5

Lab and Field Work Hours: 0

Contact Hours: 2.5

Prerequisite(s): IDS 6250 or C.I.

Multiple topics on electrical and optical properties of nanoscale materials and devices, including size-dependent change in material properties, structural understanding by atomic-to-nanoscale characterizations, fabrication of nanoscale devices and their electrical properties, luminescent properties and applications.

Odd Spring, Even Spring

College of Graduate Studies - NanoScience Technology Center

IDS 6261 - Nanotechnology for Sustainable Agriculture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PSM or MS in Nanotechnology or C.I.

Prepares a new generation of STEM students who are equipped with necessary knowledge to adapt sustainable agricultural practices.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6262 - Research Design for Modeling and Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDS 6XXX Simulation Techniques. Prerequisite(s) or Corequisite(s): IDS 6148

Theoretical and practical aspects of interdisciplinary research methodologies as they relate to human-centered Modeling and Simulation.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6264 - Biointerfaces Enabled by Micro/NanoFabrication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PSM or MS in Nanotechnology or C.I.

Introduces students to the interfaces and devices in the biotechnology and biomedical arenas that are enabled by Micro/NanoFabrication.

Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6265 - Luminescent Materials and Devices

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDS 6250 or upon instructor approval.

Fundamental and applied topics of luminescent materials and devices: Luminescent Processes; Phosphors; Scintillators; Organic Emitters; Compound Semiconductors; Quantum dots; Photoluminescence; Cathodoluminescence; Electroluminescence; Various Applications.

Fall

College of Graduate Studies - Department of Interdisciplinary Studies

IDS 6308 - Ways of Knowing**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Theoretical models of knowledge as exemplified by various disciplines and interdisciplinary activity. Focus on epistemological issues raised in past and present works.

Even Spring

College of Graduate Studies - Interdisciplinary Grad

IDS 6351 - Critical Thinking and Writing**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDS 6308 and IDS 6669.

Focus on refining critical understanding of interdisciplinary research and organization and presentation of interdisciplinary ideas, building on first two core courses.

Fall

College of Graduate Studies - Interdisciplinary Grad

IDS 6503 - International Trends in Instructional Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EME 6613.

International and multicultural issues and how they affect the global impact of technology in education, training, and quality management.

Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

IDS 6504 - Adult Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

An examination of theory and research on adult learning with emphasis on practical applications, instruction, and technology use in educational and workplace settings.

Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

IDS 6513 - Preparing Tomorrow's Faculty

0 Credit Hours

Class Hours: 24 hours (twelve 2-hour meetings)

Lab and Field Work Hours: 0

Contact Hours: 24 hours (twelve 2-hour meetings)

Prerequisite(s): Active graduate student standing

Preparing Future Faculty introduces the foundations of teaching in higher education, student learning, course design, teaching pedagogies, assessment and feedback, classroom management, and career development.

Every Semester

College of Graduate Studies - Interdisciplinary Studies

IDS 6515 - Classroom Management for Mathematics and Science Teachers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Teacher candidates will engage in critical examination of current school and classroom organization and management models, methods, and strategies in middle school. Causes and solutions to disruptive and noncompliant behaviors will be discussed.

Even Fall

College of Community Innovation and Education - School of Teacher Education

IDS 6516 - Leadership Development for Mathematics and Science Teachers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Development of mathematics and science teachers' abilities to assume teacher leadership roles in their schools.

Even Spring

College of Community Innovation and Education - School of Teacher Education

IDS 6606 - Approaches to Network Analysis and Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

This course is co-organized between social and computer scientists. It covers basic network concepts, best practices in collecting and analyzing network data and interdisciplinary/multidisciplinary applications.

Odd Fall, Even Fall

College of Sciences - School of Politics, Security, and International Affairs

IDS 6657 - Professional Collaboration in Language and Literacy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Interdisciplinary approach to exploring issues in language and literacy for struggling children and adolescents and development of collaboration competencies for professionals from different disciplines.

Odd Summer, Even Summer

College of Health Professions and Sciences - Department of Communication Sciences and Disorders

IDS 6669 - Interdisciplinary Approaches to Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDS 6308 or C.I.

Explores methods/assumptions/challenges experienced in interdisciplinary research; includes practice integrating discipline-based research methods with reflexive/dialogic methods; helps prepare students for capstone project or thesis.

Odd Spring, Even Spring

College of Graduate Studies - Interdisciplinary Studies

IDS 6694 - Experimental Design and Analysis in Biomedical Sciences

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Graduate standing in biomedical sciences or C.I.

Problem based learning graduate course focused on how to effectively design experiments and analyze data for hypothesis-driven research in biomedical sciences.

Spring

College of Medicine - Department of Molecular and Microbiology

IDS 6740 - Nonlinear Dynamics in the Cognitive and Behavioral Sciences**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Theoretical and practical aspects of research applying nonlinear dynamical systems methodologies as they relate to human-centered Modeling and Simulation.

Odd Spring, Even Spring

College of Graduate Studies - School of Modeling, Simulation, and Training

IDS 6910 - Research in Mathematics and Science Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Support provided for graduate students in mathematics and science education as they plan and/or implement research projects.

Even Fall

College of Community Innovation and Education - School of Teacher Education

IDS 6916 - Simulation Research Methods and Practicum**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): DIG 5875C and DIG 5876 or their equivalents.

Interdisciplinary teams of students conduct fundamental and applied research on contemporary issues in modeling, simulation, and training.

Occasional

College of Graduate Studies - Interdisciplinary Grad

IDS 6933 - Seminar in Teaching Mathematics and Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and valid Florida Teaching Certificate or C.I.

This course is designed so that graduate students may study specific areas related to curriculum, instruction, and assessment in mathematics and science education. May be repeated for credit.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

IDS 6937 - Teaching Mathematics and Science Using Reform-Based Practices

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and valid Florida Teaching Certificate or C.I.

Focuses on the work of Dewey and Piaget as it applies to mathematics and science teaching. Emphasizes integrating math and science teaching.

Fall

College of Community Innovation and Education - School of Teacher Education

IDS 6938 - Hardware Prototyping for Modeling and Simulation

3 Credit Hours

Contact Hours: 3

Prerequisite(s): IDS 6145 or basic programming experience.

Introduction to 3D design and printing, microcontroller programming, and circuit board construction. Additionally, IoT and MQTT protocols to manage data, and IP protection topics.

College of Graduate Studies - Department of Interdisciplinary Studies

IDS 6938 - ST: Interdisciplinary Approaches to Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): IDS 6308 or C.I.

Explores methods/assumptions/challenges experienced in interdisciplinary research. Includes practice integrating discipline-based research methods with reflexive/dialogic methods; helps prepare students for capstone project or thesis.

Spring

College of Graduate Studies - Interdisciplinary Studies

IDS 6938 - ST: Nonlinear Dynamics in the Cognitive and Behavioral Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Theoretical and practical aspects of research applying nonlinear dynamical systems methodologies as they relate to human-centered Modeling and Simulation.

Spring

College of Graduate Studies - School of Modeling, Simulation, and Training

IDS 6938 - ST: Usable Security & Privacy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Introduces usability problems in security and privacy methods, tools, and software and overviews prominent examples of both failures and successes in usable security and privacy.

Spring

College of Graduate Studies - School of Modeling, Simulation, and Training

IDS 6939 - Reforming Curriculum in Mathematics and Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and valid Florida Teaching Certificate or C.I. Emphasizes the reform movement including technology, history of curriculum, curriculum theory, and standards documents.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

IDS 6950 - Modeling and Simulation Capstone Report Planning

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Graduate standing. Identify topic and required resources to complete multi-disciplinary Modeling and Simulation capstone project. Develop annotated topical outline for Modeling and Simulation capstone report.

Summer

College of Graduate Studies - Interdisciplinary Grad

IDS 6953 - Urban and Regional Planning Capstone I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Completion of all required Urban and Regional Planning program core courses and concentration electives or consent of Program Director. This Capstone I course synthesizes previous planning coursework through the development of a service learning project proposal.

Even Fall

College of Community Innovation and Education - School of Public Administration

IDS 6954 - Urban and Regional Planning Capstone II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Completion of IDS 6953 - Urban and Regional Planning Capstone I. This Capstone II course implements the service learning project proposal where students collect and analyze data and make planning recommendations.

Odd Spring

College of Community Innovation and Education - School of Public Administration

IDS 7500 - Seminar in Educational Research

1-3 Credit Hours

Class Hours: 1-3

Lab and Field Work Hours: 0

Contact Hours: 1-3

Prerequisite(s): Admission into doctoral program in Education or C.I.

An examination of education related research initiatives. May be repeated for credit.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

IDS 7501 - Issues and Research in Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD in Education or C.I.

An examination of major issues impacting education and related practical and methodological issues in research.
Odd Fall

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

IDS 7502 - Case Studies in Research Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the PhD in Education.

A critical analysis of educational research design.

Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

IDS 7657 - Professional Collaboration Around Language Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Education Ph.D. program or C.I.

Interdisciplinary approach to exploring issues in language and literacy for struggling children and adolescents and development of collaboration competencies in professionals from different disciplines.

Odd Fall

College of Community Innovation and Education - Dean's Office

IDS 7690 - Frontiers in Biomedical Sciences

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Biomedical Sciences Ph.D. program.

Cross-disciplinary biomolecular research seminar, collaboration between chemistry, biology, and molecular biology and microbiology. May be used in the degree program a maximum of 6 times.

Fall, Spring

College of Medicine - Department of Molecular and Microbiology

IDS 7692L - Experiments in Biomedical Sciences

1-3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1-3

Contact Hours: 1-3

Prerequisite(s): Admission to Biomedical Sciences Ph.D. program.

Laboratory rotations in one to three research laboratories throughout the first year of the Biomedical Science doctoral program. Graded S/U. May be used in the degree program a maximum of 4 times.

Fall, Spring

College of Medicine - Department of Molecular and Microbiology

IDS 7938 - Research Cluster Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the PhD program in Education or C.I.

An examination of research issues focusing on interdisciplinary inquiry in education. May be used in the degree program a maximum of 2 times.

Spring, Summer

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

IDS 7939 - Special Topics

College of Community Innovation and Education

International Relations

INR 5917 - Directed Research

College of Sciences

INR 5937 - Special Topics

College of Sciences

INR 6007 - Seminar in International Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Introduces the student to the advances in international relations theory and research through a broad sampling of approaches and methods.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6039 - International Political Economy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or post bac status.

A survey of major themes, concepts, theories, and methods of international political economy, which also entails policy discussion and applications.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6062 - Peace Studies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to degree-seeking program or C.I.

Examines how humans manage conflict, fostering justice and creative development. Surveys both international and domestic conflicts, outlining theories of peace and utilizing various case studies.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6065 - Seminar on War

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to degree-seeking program or C.I.

Examination of theories and empirical evidence locating the cause of war at the systemic, state, and individual levels of analysis.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6067 - Human Rights and Security

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to degree-seeking graduate program or C.I. Analyze international human rights and human security, including issues of human development, gender and environmental security.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6068 - Politics of Civil Wars

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to degree-seeking program or C.I. Exploration of the causes, the dynamics of violence, the international aspects, and the resolution of civil wars.

College of Sciences -School of Politics, Security and International Affairs

INR 6108 - Seminar in American Foreign Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Domestic and international factors influencing the development of selected foreign policy issues.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6136 - Seminar in American Security Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate degree seeking program or C.I.

Examination of domestic and international factors influencing the development of selected American security policy issues.

College of Sciences -School of Politics, Security and International Affairs

INR 6137 - Terrorism and Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Examines terrorism, including its strategic logics, contemporary methodologies, political roots, and the problems of counter-terrorism.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6228 - International Politics of the Caspian Sea Region

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Degree-seeking graduate standing or C.I.

A comprehensive analysis of the political issues of the Caspian region.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6254 - International Relations of Africa

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Investigates international relations in the African context, with an explicit focus on implications for international security.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6275 - International Politics of the Middle East

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Analysis of the international relations of the Middle East both among Middle Eastern states, as well as relations with other states, especially the great powers.

Even Fall

College of Sciences -School of Politics, Security and International Affairs

INR 6339 - Strategic Warning Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Explores the question of strategic warning within the context of national security with focus upon principles of analysis using examples.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6346 - Politics of International Terrorism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to degree-seeking program or C.I.

Analysis of causes of and political responses to international terrorism. Emphasis on political science approaches to analysis of international terrorism.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6352 - Global Environmental Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Political Science MA or C.I.

Unique environmental struggles and issues on the international and global levels.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6356 - Environmental Security

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to degree-seeking program or C.I.

Examination of the relationship between environmental degradation and both national and international security, introducing students to the technical and political debates on global environmental change.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6365 - Seminar on Intelligence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to degree-seeking program or C.I.

Examines the organization and functions of the U.S. intelligence community, its interaction with national security policymakers, and the challenges in defining its future role.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6366 - The Intelligence Community

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to a graduate program, or C.I. The intelligence community structure in its relationship to foreign policy decision making, consideration of control and reliability questions, and issues of cooperation and coordination.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6507 - International Organization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. A survey of the theories, structures, issues, and agents of international organization, focusing on the effects of regional and global governance on state behavior.

Occasional

College of Sciences -School of Politics, Security and International Affairs

INR 6726 - Political Behavior in International Conflict

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Analysis of the ways in which cognitive and emotional theories of human behavior have been used to explain conflict between nation-state and other non-state actors.

Occasional

College of Sciences - School of Politics, Security and International Affairs

INR 6909 - Research Report

College of Sciences

INR 6918 - Directed Research

College of Sciences

INR 6938 - Special Topics

College of Sciences

INR 7139 - Issues in Domestic Security

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Security Studies Ph.D. or C.I.

Examination of national issues such as domestic terrorism, with a particular emphasis on challenges arising at the state level.

Even Fall

College of Sciences -School of Politics, Security and International Affairs

INR 7332 - Scientific Study of Security

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Security Studies Ph.D. or C.I.

Principles of research design and evaluation of studies on domestic and international security; preparation of an empirical research paper.

Fall

College of Sciences -School of Politics, Security and International Affairs

INR 7337 - Issues in International Security

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Security Studies Ph.D. or C.I.

Overview of international issues such as terrorism, genocide, nuclear proliferation, war, the spread of infectious diseases, fragile and failing states, transnational organized crime and gender.

Even Spring

College of Sciences -School of Politics, Security and International Affairs

INR 7687 - Theoretical Approaches to Security Studies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Security Studies Ph.D. or C.I.

Survey of realist, liberal, constructivist, critical and other theories of international security.

Even Fall

College of Sciences -School of Politics, Security and International Affairs

Journalism

JOU 5917 - Directed Research

JOU 5937 - Special Topics

Juvenile Justice

CJJ 6020 - The Juvenile Justice System

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I.

This course will focus on the development and philosophy of the Juvenile Justice System; the measurement of delinquency, theories and correlates of delinquency and prevention.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CJJ 6124 - Seminar in Prosecuting Juvenile Offenders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admitted to Criminal Justice Ph.D. Program or Public Affairs (Criminal Justice track) Ph.D. program or C.I. This course will provide students with an advanced understanding of the theory and research surrounding the major decision-making stages in the juvenile court process.

Summer

College of Community Innovation and Education - Department of Criminal Justice

CJJ 6126 - Seminar in Juvenile Corrections

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admitted to Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. program or C.I. This course will focus on community and institutional correctional settings in juvenile justice, evidence-based screening and assessment techniques, and juvenile justice interventions and their effectiveness.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CJJ 6546 - Seminar in Policing and Prevention in the Juvenile Justice System**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admitted to Criminal Justice Ph.D. program or Public Affairs Ph.D. Criminal Justice track or C.I. This course will provide students with an advanced understanding of the initial stages of the juvenile system and the strategies used to intervene.

Spring

College of Community Innovation and Education - Department of Criminal Justice

Language Arts and English Education**LAE 5295 - Writing Workshop****1-3 Credit Hours**

Class Hours: 1-3

Lab and Field Work Hours: 0

Contact Hours: 1-3

Prerequisite(s): C.I.

Students will engage in exploration and practice of effective writing strategies. (May be repeated up to 3 semester hours.) May be repeated for credit.

Summer

College of Community Innovation and Education - School of Teacher Education

LAE 5319 - Methods of Elementary School Language Arts**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Principles, procedures, organization and current practices in reading, writing, listening, and talking.

Fall, Summer

College of Community Innovation and Education - School of Teacher Education

LAE 5337 - Literacy Strategies for Middle and Secondary Teaching

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415 or C.I.

Designed to assist teachers and graduate students in understanding the adolescent learner. This course will examine theory, strategies, research, resources and implementation options for effective middle and secondary literacy programs.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

LAE 5338 - Teaching Writing in Middle and High School

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415 or C.I.

Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

LAE 5346 - Methods of Teaching English Language Arts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415 and TSL 5085 or CI or admission to Initial Teacher Professional Preparation certificate.

Designed for alternative certification and Masters of Arts students to explore the strands, methods and materials related to school curriculum in teaching English.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

LAE 5369 - Literacy Strategies in a Digital Age for Middle and High School

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to graduate program or C.I. Designed to assist teachers in understanding and presenting information using digital literacies, technological innovations, language arts skills and multicultural models of instruction for secondary education.

Spring, Summer

College of Community Innovation and Education - School of Teacher Education

LAE 5415 - Children's Literature in Elementary Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children; integrating literature with elementary curricula.

Spring, Summer

College of Community Innovation and Education - School of Teacher Education

LAE 5465 - Literature for Adolescents

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Senior standing or C.I.

Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people.

Spring, Summer

College of Community Innovation and Education - School of Teacher Education

LAE 5495 - Assessing Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment.

Spring

College of Community Innovation and Education - School of Teacher Education

LAE 5496 - Disciplinary Literacy in the Content Areas

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Graduate standing. Designed to assist in understanding the adolescent reader and writer, this course will examine theory, strategies, resources, and implementation options of disciplinary literacy specifically in the content areas (Mathematics, Science, Social Studies, and other content areas).

Spring, Summer

College of Community Innovation and Education - School of Teacher Education

LAE 5917 - Directed Research

College of Community Innovation and Education

LAE 5937 - Special Topics

College of Community Innovation and Education

LAE 6296 - Advanced Writing Workshop

1-3 Credit Hours

Class Hours: 1-3

Lab and Field Work Hours: 0

Contact Hours: 1-3

Prerequisite(s): LAE 5295 or C.I.

Designed for teachers who have completed a previous writing workshop course. Includes history, theory, research, and strategies for teaching writing. (Course may be repeated up to 3 semester hours.) Course May be repeated for credit.

Summer

College of Community Innovation and Education - School of Teacher Education

LAE 6366 - Advanced Studies in Adolescent Literature

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): LAE 4464 or LAE 5465.

Analysis of major works in genre, examination of criticism, instructional strategies, and research in teaching adolescent literature.

Fall, Summer

College of Community Innovation and Education - School of Teacher Education

LAE 6417 - Investigation in Children's Literature

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): A previous survey course in children's literature.

Learning through the utilization of children's literature, literature analysis and evaluation, storytelling, visual and reference materials.

Spring

College of Community Innovation and Education - School of Teacher Education

LAE 6616 - Trends in Language Arts Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Historical development and trends; English usage systems; materials; instructional strategies.

Fall

College of Community Innovation and Education - School of Teacher Education

LAE 6637 - Research in Teaching English

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Examination and interpretation of major research in English education. Design of models for research in language instruction in secondary schools.

Spring

College of Community Innovation and Education - School of Teacher Education

LAE 6909 - Research Report

College of Community Innovation and Education

LAE 6918 - Directed Research

College of Community Innovation and Education

LAE 6936 - Seminar in Language Arts Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Provides classroom teachers with opportunities to conduct in-depth explorations of timely topics related to teaching language and literacy.

Summer

College of Community Innovation and Education - School of Teacher Education

LAE 6938 - Special Topics

College of Community Innovation and Education

Latin American History

LAH 5917 - Directed Research

College of Arts and Humanities

LAH 5920 - Colloquium in Latin American History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examines the major themes and historiography of recent works on Latin American history. May be used in the degree program a maximum of 2 times only when course content is different.

Occasional

College of Arts and Humanities - Department of History

LAH 5937 - Special Topics

College of Arts and Humanities

LAH 6909 - Research Report

College of Arts and Humanities

LAH 6918 - Directed Research

College of Arts and Humanities

Law and Process

CJL 5049 - International Perspectives on Law and Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CJL 6520 - American Criminal Courts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program or C.I.

Critically study and evaluate day-to-day discretionary decisions of prosecutors, judges and defense attorneys and identify how their decisions shape the broad discretionary power this institution yields.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CJL 6568 - Law and Social Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate, or C.I.

This course will examine the types of behavior the state has sought to control and the means employed to exert such control.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

Law Enforcement

CJE 5021 - Foundations of Law Enforcement

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Criminal Justice graduate program, graduate certificate program, or C.I.

Examines police role in modern society and law enforcement policy.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CJE 6120 - Personnel Management in Criminal Justice Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Criminal Justice or C.I.

This course provides a general overview of the issues and problems in the management of criminal justice agencies with an emphasis on best practices.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CJE 6320 - Seminar in Police Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. program or C.I. Administration and operational task of police organization, including exercise and control of discretion, hierarchies and divisions of labor, incentive structures, and evaluation of effectiveness and efficiency of police operations.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CJE 6456 - Seminar in Policing Urban Communities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission into the Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. programs or C.I. This course concentrates on the urban communities of the United States and delves into the issues that affect the type of policing that occurs in these locales.

Spring

College of Community Innovation and Education - Department of Criminal Justice

CJE 6688 - Cyber Crime and Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CCJ 5015 or C.I.

Deals with the problem of cyber crime and the criminal use of the Internet. Includes investigation, enforcement and legal issues.

Occasional

College of Community Innovation and Education - Department of Criminal Justice

CJE 6706 - Seminar in Police Socialization and Culture

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) program or C.I. This course examines the origins and correlates of socialization and culture operating within the internal and external environments of policing.

Fall

College of Community Innovation and Education - Department of Criminal Justice

CJE 6718 - Proseminar in Criminal Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Capstone experience for the Criminal Justice Professional track. Reviews and integrates the six other courses in the core curriculum.

Fall

College of Community Innovation and Education - Department of Criminal Justice

Leisure

LEI 5917 - Directed Research

College of Community Innovation and Education

LEI 5937 - Special Topics

College of Community Innovation and Education

LEI 6443 - Recreation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

A comprehensive study of public, private, and school recreation programs.
College of Community Innovation and Education - School of Teacher Education

LEI 6909 - Research Report

College of Community Innovation and Education

LEI 6918 - Directed Research

College of Community Innovation and Education

LEI 6938 - Special Topics

College of Community Innovation and Education

Linguistics

LIN 5137 - Linguistics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics.

Occasional

College of Arts and Humanities - Department of English

LIN 5675 - English Grammar and Usage

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage.

Occasional

College of Arts and Humanities - Department of English

LIN 5917 - Directed Research

College of Arts and Humanities

LIN 5937 - Special Topics

College of Arts and Humanities

LIN 6909 - Research Report

College of Arts and Humanities

LIN 6918 - Directed Research

College of Arts and Humanities

LIN 6938 - Special Topics

College of Arts and Humanities

Literature

LIT 5917 - Directed Research

College of Arts and Humanities

LIT 5937 - Special Topics

College of Arts and Humanities

LIT 6039 - Studies in Contemporary Poetry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in MFA Creative Writing program or C.I.

English language poetry from 1945 to the present. Emphasis on American poets, but others such as English or Australian will be included. May be used in the degree program a maximum of 2 times.

Occasional

College of Arts and Humanities - Department of English

LIT 6076 - Studies in Contemporary Nonfiction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Creative Writing MFA Program or C.I. based on submission of manuscript.

Comprehensive study of nonfiction, including memoir, personal essay, literary journalism, and/or nature writing, with special emphasis on craft. May be used in the degree program a maximum of 2 times.

Occasional

College of Arts and Humanities - Department of English

LIT 6097 - Studies in Contemporary Fiction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in MFA in Creative Writing program or C.I.

Fiction in the last 20 years in the United States and Britain. May be used in the degree program a maximum of 2 times.
Occasional

College of Arts and Humanities - Department of English

LIT 6216 - Issues in Literary Study

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Specific issues and controversies in literary study. May be used in the degree program a maximum of 4 times only when course content is different.

Occasional

College of Arts and Humanities - Department of English

LIT 6276 - Teaching College Literature

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Pedagogical theory and practical techniques for teaching literature in college and university settings.

Occasional

College of Arts and Humanities - Department of English

LIT 6435 - Rhetoric of Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in English or C.I.

Rhetorical analysis of traditional scientific texts and critically examine the discourse of technology.

Occasional

College of Arts and Humanities - Department of English

LIT 6909 - Research Report

College of Arts and Humanities

LIT 6918 - Directed Research

College of Arts and Humanities

LIT 6936 - Studies in Literary, Cultural, and Textual Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

Specific topics in the study of literature that foreground cultural and theoretical issues. May be used in the degree program a maximum of 4 times only when course content is different.

Occasional

College of Arts and Humanities - Department of English

LIT 6938 - Special Topics

College of Arts and Humanities

Management

MAN 5917 - Directed Research

College of Business Administration

MAN 5937 - Special Topics

College of Business Administration

MAN 6066 - Ethical Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in the College of Business Administration or C.I.

Building on a foundation of basic theories of ethical decision making from organizational and behavioral perspectives.

The course examines challenges involved in maintaining exemplary professional ethics.

Occasional

College of Business Administration - Department of Management

MAN 6146 - Professional Leadership I

1.5 Credit Hours

Class Hours: 1.5

Lab and Field Work Hours: 0

Contact Hours: 1.5

The Professional Leadership course is comprised of two complementary 1.5-credit modules. Part I includes topics, cases, reading assignments, and exercises that are designed to develop cognitive and interpersonal skills.

Odd Fall, Even Fall

College of Business Administration - Department of Management

MAN 6147 - Professional Leadership II

1.5 Credit Hours

Class Hours: 1.5

Lab and Field Work Hours: 0

Contact Hours: 1.5

The Professional Leadership course is comprised of two complementary 1.5-credit modules. Part II includes topics, cases, reading assignments, and exercises that are designed to develop cognitive and interpersonal skills related to strategic leadership, leading change, and leading during a crisis.

Odd Spring, Even Spring

College of Business Administration - Department of Management

MAN 6245 - Organizational Behavior and Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA master's program of study foundation core or C.I.

The analysis of human behavior in organizations in terms of the individual, small group, intergroup relationships, and the total organization.

Fall

College of Business Administration - Department of Management

MAN 6285 - Change Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Course designed to familiarize students with change management processes and interventions.

Even Fall

College of Business Administration - Department of Management

MAN 6296 - Executive Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Executive MBA program.

A review of the theory, research, and practice of leadership in organizations. Special attention to contemporary leadership issues, including transactional and transformational leadership.

Odd Spring

College of Business Administration - Department of Management

MAN 6305 - Human Resources Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Course is designed as an overview of human resources practices, techniques and strategies.

Occasional

College of Business Administration - Department of Management

MAN 6311 - Advanced Topics in Human Resources Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAN 6305 or C.I.

An in-depth analysis of current human resource issues related to the attraction, management, and retention of human capital.

Occasional

College of Business Administration - Department of Management

MAN 6325 - Applied Research Tools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Development of applied qualitative and quantitative research skills for collecting, analyzing and reporting data to organizations.

College of Business Administration - Department of Management

MAN 6385 - Strategic Human Resources Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAN 6305 or C.I.

Examination of the strategic orientation of human resources management and the development of the human resources architecture aligned with the organization's strategy and task environment.

Occasional

College of Business Administration - Department of Management

MAN 6395 - Leadership Development and Coaching

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Course is designed to prepare students to understand the nature and role of leadership development with an emphasis on coaching.

Occasional

College of Business Administration - Department of Management

MAN 6448 - Conflict Resolution and Negotiation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Theory and processes of negotiation in a variety of settings, with relevance to the broad spectrum of negotiation faced by managers.

Occasional

College of Business Administration - Department of Management

MAN 6581 - Project Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Integrated Business track in the Masters of Science in Management.

Introduces key project management skills and strategies with a focus on methods needed to initiate and manage projects efficiently and effectively.

Spring

College of Business Administration - Department of Management

MAN 6721 - Applied Strategy and Business Policy**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MBA Professional Core I and taken in last semester of program.

This capstone course integrates the various functional disciplines in business administration. It focuses on the theories and frameworks in the field of strategic management.

Spring

College of Business Administration - Department of Management

MAN 6909 - Research Report

College of Business Administration

MAN 6915 - Applied Field Project**3-6 Credit Hours**

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): All other courses in the selected track in the program.

Capstone course; applies concepts, theories and methods learned earlier in program to organizational problems in business settings.

Occasional

College of Business Administration - Department of Management

MAN 6918 - Directed Research

College of Business Administration

MAN 7207 - Organization Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral status.

Study of impact of environment, technology, size and innovation on organization structure, functions and development.

Occasional

College of Business Administration - Department of Management

MAN 7275 - Organizational Behavior**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

In-depth review of the classic and modern organizational behavior research literature, which deals with management of individual and group behavior in organizations.

Occasional

College of Business Administration - Department of Management

MAN 7776 - Business-level Strategic Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to doctoral program and C.I.

In-depth review of the classic and modern business-level strategy research literature, which deals with topics such as competitive strategy, industry analysis and the strategy process.

Occasional

College of Business Administration - Department of Management

MAN 7900 - Directed Readings in Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to doctoral program and C.I.

Directed readings in the area of Management concentration, as determined by the student's doctoral study advisory committee. May be repeated for credit.

Occasional

College of Business Administration - Department of Management

MAN 7916 - Seminar in Management Research

Var Credit Hours

Contact Hours: 0

Prerequisite(s): Admission to PhD program or C.I.

Examines empirical and theoretical research in selected management topics. Specific topics may not be repeated for credit. Maximum of 15 hours toward degree. May be repeated for credit only when course content is different.

Occasional

College of Business Administration - Department of Management

MAN 7919 - Research

College of Business Administration

MAN 7922 - Management Research Forum

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): Admission to doctoral program.

Research and pedagogical issues in management, including research presentations by faculty, doctoral students, and invited scholars.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Business Administration - Department of Management

MAN 7939 - Special Topics

College of Business Administration

Marketing

MAR 5917 - Directed Research

College of Business Administration

MAR 5937 - Special Topics

College of Business Administration

MAR 6409 - Lead Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 3

Lead management is responsible for generating high quality sales leads and nurturing them into customers. The goal of the class is to help students become familiar with lead management activities, technologies, and strategies for accomplishing this objective.

Even Spring, Occasional

College of Business Administration - Department of Marketing

MAR 6416 - Sales and Marketing Strategies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Integrated Business track of the Masters of Science in Management.

Marketing strategy including analytical and conceptual tools. Introduction to digital marketing and the sales process.

Conceptualization of integrated marketing and sales plans.

Fall

College of Business Administration - Department of Management

MAR 6466 - Strategic Supply Chain and Operations Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Master's program of study foundation core or C.I.

Planning and management of all activities involved in designing and managing the processes, assets, and flows of material and information required to meet customers' demands.

Spring

College of Business Administration - Department of Marketing

MAR 6476 - Sales Force Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 3

Overview of the sales management process with an emphasis on sales program formulation and management. The overall goal of Strategic Sales Force Management is to examine the elements of an effective sales force as a key component of the organization's total marketing strategy with an emphasis on a highly effective use of the value proposition.

Odd Fall, Occasional

College of Business Administration - Department of Marketing

MAR 6477 - Sales Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 3

This class is intended to simulate the real-world selling environment. It will introduce students to the technological tools in data management and analysis as applied to the sales process. The course will accomplish two key objectives:

1. An 'analytics' perspective on the selling and buying processes: things that don't get measured don't get changed!
2. Analysis of sales management challenges and analytics applications using the case method of instruction.

Odd Fall, Occasional

College of Business Administration - Department of Marketing

MAR 6646 - Marketing Analytics for Strategic Decision Making

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Consent of College of Business Graduate Studies.

Study of a variety of data-driven models and techniques used to understand customers, improve results, and facilitate strategic decision making.

Occasional

College of Business Administration - Department of Marketing

MAR 6722 - Digital Marketing Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA master's program of study foundation core.

Understand how digital marketing differs from conventional marketing. Develop an ability to formulate digital marketing applications and build viable digital marketing strategies.

Occasional

College of Business Administration - Department of Marketing

MAR 6729 - Marketing of High Technology Products

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA master's program of study foundation core.

Understand high technology marketing issues. Acquire concepts and tools to develop high technology business models. Develop insights into branding, new product development, forecasting and CRM.

Occasional

College of Business Administration - Department of Marketing

MAR 6816 - Strategic Marketing Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MBA Professional Core I.

Marketing competitive strategy formulation with respect to product, pricing, promotion and distribution. Course aims at developing strategic thinking, functional marketing expertise and analytical skills.

Fall, Spring

College of Business Administration - Department of Marketing

MAR 6849 - Services Marketing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Marketing in services industries is the focus of study with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of service strategies.

Occasional

College of Business Administration - Department of Marketing

MAR 6909 - Research Report

College of Business Administration

MAR 6918 - Directed Research

College of Business Administration

MAR 6938 - Special Topics

College of Business Administration

MAR 7575 - Seminar in Consumer Behavior

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 7423 and admission to the PhD program.

Provide doctoral students with a broad exposure to the literature of consumer behavior theories and methods.

Occasional

College of Business Administration - Department of Marketing

MAR 7626 - Multivariate Analysis for Business Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 7423 or equivalent, C.I.

Provides PhD students an in-depth treatment of multivariate analysis applications to marketing and business research problems.

Occasional

College of Business Administration - Department of Marketing

MAR 7638 - Seminar in Marketing Theory, Scaling, and Measurement

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): ECO 7423 and admission to the PhD program.

Provide doctoral students with a foundation in marketing theory, scaling, and measurement.

Occasional

College of Business Administration - Department of Marketing

MAR 7666 - Seminar in Marketing Models I

1.5 Credit Hours

Class Hours: 1.5

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): ECO 7423 (or equivalent) and admission to the Ph.D. program or C.I.

Overview of marketing literature with emphasis on marketing models topics.

Occasional

College of Business Administration - Department of Marketing

MAR 7667 - Seminar in Marketing Models II

1.5 Credit Hours

Class Hours: 1.5

Lab and Field Work Hours: 0
Contact Hours: 2

Prerequisite(s): ECO 7423 (or equivalent) and MAR 7666 and admission to Ph.D. program or C.I.
Overview of marketing literature with emphasis on marketing models, beyond those covered MAR 7666.
Occasional

College of Business Administration - Department of Marketing

MAR 7807 - Seminar in Marketing Strategy I

1.5 Credit Hours

Class Hours: 1.5
Lab and Field Work Hours: 0
Contact Hours: 2

Prerequisite(s): ECO 7423 (or equivalent) and admission to the Ph.D. program or C.I.
Overview of marketing literature with emphasis on marketing strategy topics.
Occasional

College of Business Administration - Department of Marketing

MAR 7808 - Seminar in Marketing Strategy II

1.5 Credit Hours

Class Hours: 1.5
Lab and Field Work Hours: 0
Contact Hours: 2

Prerequisite(s): ECO 7423 (or equivalent) and admission to Ph.D. program and MAR 7807, or C.I.
Overview of marketing literature with emphasis on marketing strategy topics, beyond those covered in MAR 7807.
Occasional

College of Business Administration - Department of Marketing

MAR 7919 - Research

College of Business Administration

MAR 7939 - Special Topics

College of Business Administration

Mass Media Communication

MMC 5917 - Directed Research

Nicholson School of Communication and Media

MMC 5937 - Special Topics

Nicholson School of Communication and Media

MMC 6202 - Legal and Ethical Issues for Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of social, ethical and legal issues for Communications practitioners and the impact on media consumers.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

MMC 6307 - International Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Case studies on global communication, coping with cultures, communicating across cultures, global media, global news flow and persuasive communication. May be repeated for credit.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

MMC 6600 - Media Effects and Audience Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of the effects of communication on society emphasizing the research in media effects.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

MMC 6612 - Communication and Government

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of the relationship between the media and government.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

MMC 6735 - Social Media as Mass Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

COM 6008 or C.I. Overview of social media and its role in mass communication and society. A particular emphasis on scholarship and practice in corporate communication.

Occasional

Nicholson School of Communication and Media - Department of Film and Mass Media

MMC 6909 - Research Report

Nicholson School of Communication and Media

MMC 6918 - Directed Research

Nicholson School of Communication and Media

MMC 6938 - Special Topics

Nicholson School of Communication and Media

Materials Engineering

EMA 5060 - Polymer Science and Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365.

Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5104 - Intermediate Structure and Properties of Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365.

Fundamentals of dislocation theory, metallurgical thermodynamics and diffusion. Phase transformations, strengthening

mechanisms and fracture. Introduction to engineering polymers, ceramics, and composites.

Fall

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5106 - Metallurgical Thermodynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365.

Laws of thermodynamics, phase equilibria, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5108 - Surface Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365 or EMA 3706 or C.I.

This course focuses on the physics underlying the techniques used to analyze the surface region of materials. This course also addresses the fundamentals of these processes.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5140 - Introduction to Ceramic Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365.

Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5317 - Materials Kinetics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Mass and thermal transport, phase transformations and Arrhenius rate processes.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5326 - Corrosion Science and Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365.

Electrochemical principles and applications to detecting and monitoring corrosion processes. Various forms of corrosion, their causes and control. Techniques of corrosion protection.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5415 - Electronic Principles of Materials Properties

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365 or EMA 3706 or C.I.

This course will cover the fundamental concepts of band structure and bonding of materials, electrical and thermal conduction in metals, semiconductors and dielectric. The interaction between light and matter will be addressed and the important concepts such as excitons will be introduced.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5504 - Modern Characterization of Materials

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): EMA 5104 or C.I.

This course overviews the modern characterization instrumentation for contemporary materials science and engineering studies and aims to understand their scientific significance, and operation principles, and technological applications.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5505 - Scanning Electron Microscopy

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): EMA 5104 or C.I.

A review of electron optics, beam/specimen interactions, image formation, X-ray analysis, specimen preparation, microelectronic applications and crystallography in the SEM.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5584 - Biomaterials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365.

Properties of natural biological materials and their relation to microstructure, biocompatibility, specific applications in orthopedic, cardiovascular, visual, neural, and reconstruction implants.

Even Spring

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5585 - Materials Science of Thin Films

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Interaction of thin film processing techniques with the structure and properties of the materials deposited.

Odd Fall

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5586 - Photovoltaic Solar Energy Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365.

Materials properties basic to photovoltaics, structures, homojunction, heterojunction, and surface barrier solar cells, AMDS-1D modeling of c-Si, GaAs bulk and a-Si:H, CIGS, and CdTe thin film solar cells. May be repeated for credit.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5588 - Biocompatibility of Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3365 or C.I.

Biocompatibility and bioactivity; cell-biomaterials interactions; engineering bone and cartilage; soft-tissue replacements; total hip replacements; nanostructured biomaterials, imaging techniques, preservation techniques for biomaterials, MSDS and FDA compatibility data.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5610 - Laser Materials Processing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGN 3343 or EMA 5106 or C.I.

Laser beam optics; laser-material interactions; laser heating, melting, vaporization. Plasma formation; laser surface treatment, welding, machining; laser material synthesis. Thin film deposition, crystal growth.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5705 - High Temperature Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or C.I.

The course covers the principles of strengthening alloys for high temperature service, alloy and process selection, alloy development and design principles for elevated temperature applications.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 5917 - Directed Research

College of Engineering and Computer Science

EMA 5937 - Special Topics

College of Engineering and Computer Science

EMA 6017 - Nanostructured Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or C.I.

The course covers the science of the building blocks of nanostructured materials, their chemical and structural characterization, material behavior, and the technological implications of these materials.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6126 - Physical Metallurgy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or EMA 3124.

Analytical methods in crystallography, dislocation theory, annealing, solid solutions, phases and phase diagrams, ferrous and non-ferrous alloy systems.

Fall

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6129 - Solidification and Microstructure Evolution

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EML 4142, EMA 5104, or C.I. Cooling process, nucleation, spinodal decomposition, interface instability, cells, dendrites, eutectic and peritectic microstructures, solute segregation, modeling project.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6130 - Advanced Phase Transformations in Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 and EMA 5106 or C.I.

Principles of thermodynamics, kinetics, and phase diagrams for the understanding of diffusion and diffusionless phase

transformations in ferrous and non-ferrous alloys.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6136 - Diffusion in Solids

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 and EML 5060 or C.I.

Fundamental equations and mechanisms of diffusion. Diffusion in metallic, ionic, and semiconducting materials with emphasis on measurement techniques.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6149 - Imperfections in Crystals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or C.I.

Describes point, line, and planar defects in crystalline materials. Discusses vacancy formation, dislocation theory, plasticity, grain boundary modeling, and the interaction between defects.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6319 - Colloids and Interface Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or EMA 5060 or C.I.

Surface and interfacial tension of liquids, self-assembled monolayers, applications of scanning probe microscopes in interfaces, forces in colloidal systems, stability of macro emulsions, formation and properties of microemulsions, self-assembly.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6516 - X-ray Diffraction and Crystallography

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or C.I.

Theory and experimental techniques of X-ray diffraction of materials. Topics include the structure of crystalline solids, including lattices, point group and space group theory.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6518 - Transmission Electron Microscopy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or C.I.

An introduction to the theory and operation of a transmission electron microscope. Electron diffraction techniques, contrast from images, analytical microscopy, and specimen preparation.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6605 - Materials Processing Techniques

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or C.I.

Phase transformation; grain size; surface, powder, and composite processing; shape forming; polymer processes; liquid and vapor phase synthesis; radiation-induced processes, mathematical analysis, project.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6611 - Optoelectronics Materials Processing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 4413, graduate standing or C.I.

Electronic Theory for Materials Preparation, Doping, Metallization, Effect of Materials Properties on Device (eg. Solar Cells, LEDs, and Detectors) Performances.

Occasional

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6626 - Mechanical Behavior of Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EMA 5104 or EMA 4223.

Fundamentals of the mechanical behavior of materials; advanced treatment of elasticity, plasticity, viscoelasticity, creep, fracture and fatigue in a variety of material classes.

Spring

College of Engineering and Computer Science - Department of Materials Science and Engineering

EMA 6909 - Research Report

College of Engineering and Computer Science

EMA 6918 - Research

College of Engineering and Computer Science

EMA 6938 - Special Topics

College of Engineering and Computer Science

EMA 7919 - Research

College of Engineering and Computer Science

Mathematics

MAT 5712 - Scientific Computing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in mathematics or C. I.

Introduction to numerical algorithms and programming, covering computer arithmetic, solution of nonlinear equations, approximation of functions, numerical integration, and numerical solution of ODEs.

Odd Fall, Even Fall

College of Sciences - Department of Mathematics

Mathematics Applied

MAP 5117 - Mathematical Modeling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4321, MAP 4303, graduate standing or senior standing, or C.I.

Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models.

Even Fall

College of Sciences - Department of Mathematics

MAP 5336 - Ordinary Differential Equations and Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 5228 or C.I.

Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations.

Spring

College of Sciences - Department of Mathematics

MAP 5426 - Special Functions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 2302, and graduate status or senior standing or C.I.

Series and integral representations, generating functions, recurrence relations and orthogonality properties of the special functions. Emphasis on Bessel, Legendre and hypergeometric functions.

Occasional

College of Sciences - Department of Mathematics

MAP 5435 - Advanced Mathematics for Engineers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 2302, and graduate status or senior standing or C.I.

Linear Algebra and matrix methods, ordinary differential equations, Fourier series, partial differential equations, numerical methods for differential equations, and applications to engineering.

Occasional

College of Sciences - Department of Mathematics

MAP 5606 - Differential Equations for Financial Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 4341 or C.I.

Initial value problem, terminal value problem, existence and uniqueness, Gronwall's inequality, linear system theory, parabolic PDE, elliptic PDE, basic regularity theory, maximum principle, stability.

Fall

College of Sciences - Department of Mathematics

MAP 5612 - Computational Methods for Financial Mathematics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Financial Mathematics Track in the M.S. in Mathematical Sciences, or C.I.

Numerical modeling, Numerical solutions, stability issues for Ordinary and Partial Differential Equations within the setting of financial mathematics.

Fall

College of Sciences - Department of Mathematics

MAP 5641 - Financial Mathematics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 5612 or C.I.

Single-period market, arbitrage, risk-neutral probability measure, market completeness, mean-variance portfolio analysis, multi-period market, binomial tree, contingent claim pricing.

Fall

College of Sciences - Department of Mathematics

MAP 5917 - Directed Research

College of Sciences

MAP 5931 - Proseminar for Financial Mathematics

1 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to the Financial Mathematics Track in the M.S. in Mathematical Sciences, or C.I. Seminar to develop basic career skills in Financial Mathematics.

Odd Fall

College of Sciences - Department of Mathematics

MAP 5933 - Seminar in Financial Mathematics**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): MAP 5931

Seminar to develop advanced career skills in Financial Mathematics.

Odd Fall

College of Sciences - Department of Mathematics

MAP 5937 - Special Topics

College of Sciences

MAP 6111 - Mathematical Statistics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 6238 - Measure and Probability I or C.I.

Strong laws of large numbers, consistency and asymptotic normality, complete and sufficient statistics, maximum likelihood and least squares, optimal estimators, hypothesis testing.

Spring

College of Sciences - Department of Mathematics

MAP 6118 - Introduction to Nonlinear Dynamics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 5336, PHY 2048C or equivalent, or C.I.

Nonlinear differential equations; bifurcation theory; Hamiltonian dynamics; integrable systems and breakdown of integrability; chaos in conservative and dissipative systems.

Occasional

College of Sciences - Department of Mathematics

MAP 6168 - Mathematical Modeling II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 5117, graduate standing, or C.I.

Solutions of complex industrial mathematics problems in navigation/guidance, object tracking, pattern recognition, and fluid dynamics.

Occasional

College of Sciences - Department of Mathematics

MAP 6195 - Mathematical Foundations for Massive Data Modeling and Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 5228 and MAS 5145 or C.I.

Mathematical model and analysis of massive data, numerical algorithms, optimization, nonlinear and sparse models.

Even Spring, Even Fall

College of Sciences - Department of Mathematics

MAP 6197 - Mathematical Introduction to Deep Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAT 5712 Scientific Computing, or C.I.

Covers feed-forward and convolutional neural networks, loss functions, gradient descent optimization and selected topics from the current research literatures.

Occasional

College of Sciences - Department of Mathematics

MAP 6207 - Optimization Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 4226 or C.I.

Lagrangian function and duality, Kuhn-Tucker' theorem, quadratic programming and Wolfe's theorem, Griffith and Stewart's method, search methods for unconstrained optimization.

Occasional

College of Sciences - Department of Mathematics

MAP 6218 - Stochastic Calculus

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

MAA 6245, or C.I. Stochastic integration, Stochastic Differential Equations.

Occasional

College of Sciences - Department of Mathematics

MAP 6356 - Partial Differential Equations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 4341 or MAP 5435 or equivalent.

First and second order linear equations; classification; analytical methods including Green's functions and integral representations; introduction to nonlinear equations; applications.

Even Fall

College of Sciences - Department of Mathematics

MAP 6385 - Applied Numerical Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAT5712 Scientific Computing, or C.I.

Topics in solutions of linear systems, numerical linear algebra, numerical solutions of partial differential equations, linear programming and optimization.

Odd Spring, Even Spring

College of Sciences - Department of Mathematics

MAP 6387 - Numerical Linear Algebra

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAT 5712 Scientific Computing, MAP 6385 Applied Numerical Mathematics, or C.I Corequisite(s): The students should be very comfortable with applying the theorems from Calculus, Linear Algebra concepts and using MATLAB or Fortan as a programming language.

Prepares students to understand fundamentals of numerical linear algebra and its algorithms, optimization and statistics, and machine learning algorithms with applications.

Occasional

College of Sciences - Department of Mathematics

MAP 6407 - Integral Equations and the Calculus of Variations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 3203 and MAS 3105, or graduate standing , or C.I.

Dimensional Analysis and Scaling, Calculus of Variations, Lagrangian and Hamiltonian Mechanics, Noether's Theorem, Equations of Applied Mechanics, Sturm-Liouville Theory, Integral Equations, Similarity Methods.

Fall

College of Sciences - Department of Mathematics

MAP 6408 - Perturbations and Asymptotic Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 3203, MAS 3105, and MAA 4402, or graduate standing, or C.I.

Asymptotic Analysis and Perturbation Methods, Multiple Scales, Boundary Layers, WKB method, Stationary Phase method, Steepest Descents, Riemann-Lebesgue Lemma.

Spring

College of Sciences - Department of Mathematics

MAP 6416 - Applied and Computational Harmonic Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

MAA 6229 or C.I. Fourier Series, Fourier transform, Littlewood-Paley theory, Heisenberg uncertainty principle, wavelets, frame theory, Karhunen-Loeve transform, comprehensive sensing, matrix completion, phase retrieval, signal processing.

Occasional

College of Sciences - Department of Mathematics

MAP 6419 - Advanced Transform Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 6424 or C.I.

Fourier analysis and sliding-window Fourier transform, sampling theory and its applications in signal analysis and optics, Radon transforms, the technique of back projection.

Occasional

College of Sciences - Department of Mathematics

MAP 6420 - Generalized Functions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 6506 or C.I.

Spaces of test functions and their duals, calculus of distributions, convolution and tempered distributions, Fourier transforms of distributions, and applications to PDEs.

College of Sciences - Department of Mathematics

MAP 6421 - Integral Equations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 6405 or C.I.

Successive approximations, Volterra equations, Fredholm theory, Hilbert-Schmidt theory, Neumann series, singular integral equations, the Riemann-Hilbert problem.

Occasional

College of Sciences - Department of Mathematics

MAP 6424 - Transform Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 6405 or C.I.

Laplace, Fourier, Hankel, and other integral transforms, inversion theorems; the Z transform; applications to physical problems.

Occasional

College of Sciences - Department of Mathematics

MAP 6438 - Mathematical Fluid-Flow Theory I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 2302, MAP 4303, MAA 4402, PHY 3220 or equivalent, or C.I.

Mathematical theory of incompressible fluid flows along with analytical methods in solving the equations of fluid dynamics in various situations.

Even Spring

College of Sciences - Department of Mathematics

MAP 6445 - Approximation Techniques

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 4227, MAA 5210 or C.I.

Normed linear spaces; Weierstrass approximation theorem; Tchebycheff approximation by polynomials; trigonometric approximation; orthogonal expansions and least squares approximations.

Occasional

College of Sciences - Department of Mathematics

MAP 6465 - Wavelets and Their Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 4341, MAA 6508, or C.I.

Continuous wavelet transforms, discrete wavelet transforms, frames, Zak transform, multi-resolution analysis, orthonormal bases of compactly supported wavelets, spline wavelets.

Even Fall, Even Spring

College of Sciences - Department of Mathematics

MAP 6469 - Bayesian Analysis and Approximation Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

One of the following combinations: (1) Either MAA 5210 or MAA 5228 and MAS 5145; (2) AST 4762C or AST 5765; or (3) C.I. Bayes' theorem, Fourier and wavelet transforms. Function approximation in multidimensional spaces. Kernels, Splines. Bayesian data analysis, Monte Carlo and Markov Chain Monte Carlo methods.

Occasional

College of Sciences - Department of Mathematics

MAP 6616 - Computational Methods for Financial Mathematics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 5612 or C.I.

Monte-Carlo methods, Numerical aspects of stochastic differential equations.

Spring

College of Sciences - Department of Mathematics

MAP 6642 - Financial Mathematics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 5641 or C.I.

Theoretical discussion of Stochastic processes, Brownian motion, Ito's integral, Ito's formula, martingales, Girsanov's transformation, stochastic differential equations, option pricing.

Spring

College of Sciences - Department of Mathematics

MAP 6646 - Risk Management for Financial Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 5641 or C.I.

Credit risk, counter party credit risk, securitizations, market risk, operational risk, asset liability management, Basel III regulations.

Fall

College of Sciences - Department of Mathematics

MAP 6909 - Research Report

College of Sciences

MAP 6918 - Directed Research

College of Sciences

MAP 6938 - ST: Theory and Applications of q-series

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Mathematics graduate student, or C.I.

The theory of basic hypergeometric functions and their applications to discrete mathematics
Spring

College of Sciences - Department of Mathematics

MAP 7119 - Advanced Nonlinear Dynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 6118 or C.I.

Solitons, inverse scattering transform, breakdown or integrability, analytic structure of dynamical systems, fractal aspects of turbulence.

Occasional

College of Sciences - Department of Mathematics

MAP 7359 - Advanced Topics in Partial Differential Equations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 6356, MAA 6506, or C.I.

The course prepares students advanced PDE techniques needed for their future research.

Occasional

College of Sciences - Department of Mathematics

MAP 7386 - Numerical Solutions of PDE

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 6356, MAP 6385 or C.I.

Numerical solution of linear and nonlinear partial differential equations of parabolic, elliptic and hyperbolic type.
Solution of PDE using finite difference and spectral methods.

Occasional

College of Sciences - Department of Mathematics

MAP 7439 - Mathematical Fluid-Flow Theory II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 6438 or C.I.

Mathematical theory of compressible potential flow, nonlinear acoustics, exact solutions to equations of viscous fluid flow, viscous fluid flows at low or high Reynolds numbers.

Odd Fall

College of Sciences - Department of Mathematics

MAP 7919 - Research

College of Sciences

Mathematics Education

MAE 5327 - Teaching Middle School Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415 and TSL 5085 or admission to Initial Teacher Professional Preparation certificate.

Students will develop skills in planning and delivering mathematics instruction in grades 5-9. The use of technology, cooperative learning, ESOL, and manipulatives is considered.

Occasional

College of Community Innovation and Education - School of Teacher Education

MAE 5336 - Current Methods in Secondary School Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415, TSL 5085, or admission to MED program or Initial Teacher Professional Preparation certificate.

Required special methods course for mathematics 6-12 certification. Assessment, curriculum, technology, practical

classroom ideas and activities.

Occasional

College of Community Innovation and Education - School of Teacher Education

MAE 5917 - Directed Research

College of Community Innovation and Education

MAE 5935 - Post-Secondary Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing or C.I.

The course will focus on issues which are faced by teachers of collegiate mathematics. Topics will be selected from teaching issues, program issues, and other issues.

Even Fall

College of Sciences - Department of Mathematics

MAE 5937 - Special Topics

College of Community Innovation and Education

MAE 6318 - Current Methods in Elementary School Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDE 6933 or C.I.

Strategies of instruction of computation and concepts of number, geometry, and measurement; and algebra. Standards for teaching mathematics.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

MAE 6337 - Teaching Algebra in the Secondary School

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAE 3330 or C.I.

Addresses specific techniques for developing algebra skills for pre-algebra through precalculus algebra needs. Logical deductions, problem solving, computer applications, and innovative methods are explored.

Even Summer

College of Community Innovation and Education - School of Teacher Education

MAE 6338 - Teaching Geometry in the Secondary School

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAE 3330 or C.I.

This course addresses specific techniques for developing geometry skills beginning in the general mathematics classes of grade 6 through the high school geometry course.

Odd Summer

College of Community Innovation and Education - School of Teacher Education

MAE 6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

The study of techniques for diagnosis and remediation of difficulties in mathematics.

Odd Summer

College of Community Innovation and Education - School of Teacher Education

MAE 6641 - Problem Solving and Critical Thinking Skills

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Regular Certificate or C.I.

Development of procedures and practices necessary to implement critical thinking skills and problem solving techniques in the schools.

Spring

College of Community Innovation and Education - School of Teacher Education

MAE 6656 - Using Technology in the Instruction of K-12 Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

The application of computer technology to mathematics instruction including calculators, CAI, CMI, application software, simulators, and video disc technology.

Even Fall

College of Community Innovation and Education - School of Teacher Education

MAE 6899 - Seminar in Teaching Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Six semester hours of graduate credit in mathematics education.

Development of historical and current issues, forces, and individuals and their impact on the teaching of mathematics K-12. Consideration of advanced instructional techniques. May be repeated for credit.

Fall

College of Community Innovation and Education - School of Teacher Education

MAE 6909 - Research Report

College of Community Innovation and Education

MAE 6918 - Directed Research

College of Community Innovation and Education

MAE 6938 - Special Topics

College of Community Innovation and Education

MAE 6949 - Cooperative Education in Mathematics Education

College of Community Innovation and Education

MAE 7367 - Instructional Coaching in K-8 Mathematics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): MAE 7817: Content Knowledge for Teaching K-8 Mathematics I

This course addresses improving instructional quality in mathematics by collecting data that influences instruction and implementing strategies for coaching to improve student outcomes.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Teacher Education

MAE 7640 - History of Mathematics Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Study of issues and forces that have shaped mathematics education including policies, classroom practices, curriculum development, instructional materials, technology and assessment of learning.

Even Spring

College of Community Innovation and Education - School of Teacher Education

MAE 7795 - Seminar on Research in Mathematics Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Doctoral standing.

Even Summer

College of Community Innovation and Education - School of Teacher Education

MAE 7804 - Content Knowledge for Teaching K-8 Mathematics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAE 7817: Content Knowledge for Teaching K-8 Mathematics I.

This course addresses pedagogical content knowledge for supporting K-8 mathematics teachers. Topics include integers; proportional relationships; equations, expressions, and inequalities; geometry and measurement; and statistics.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Teacher Education

MAE 7805 - Policies, Practices, and Structures in K-8 Mathematics Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral Standing.

This course explores existing inequitable policies, practices, and structures in K-8 mathematics education and strategies to develop equitable, just, and inclusive K-8 mathematics programs.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Teacher Education

MAE 7817 - Content Knowledge for Teaching K-8 Mathematics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course addresses pedagogical content knowledge for supporting K-8 mathematics teachers. Topics include whole number concepts and operations, and rational number concepts and operations.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Teacher Education

MAE 7819 - Professional Leadership in K-8 Mathematics Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral Standing.

This course culminates professional leadership experiences in the doctoral program and leverages knowledge of content, methods, practices & policies in K-8 mathematics education.

Every Semester

College of Community Innovation and Education - School of Teacher Education

MAE 7919 - Research

College of Community Innovation and Education

MAE 7930 - Seminar in K-8 Mathematics Education

1-2 Credit Hours

Class Hours: 1-2

Lab and Field Work Hours: 0

Contact Hours: 1-2

Prerequisite(s): Acceptance into K-8 Mathematics Specialization of Curriculum and Instruction Ed.D.

This course addresses requirements of the K-8 Mathematics Education Specialization within the Curriculum and Instruction Ed.D. and supports synthesis of the learning in the program.

Odd Spring, Even Spring

College of Community Innovation and Education - School of Teacher Education

MAE 7945 - Internship in Mathematics Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Math Ed track of the Ph.D. in Education.

The focus of this course is on student's participation in teaching and service related to mathematics education. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

Mathematics: Algebraic Structures

MAS 5145 - Advanced Linear Algebra and Matrix Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAS 3106 or C.I.

Linear spaces, subspaces, linear transformations, matrices, eigenvalues and eigenvectors, Jordan forms, positive definite matrices, bilinear and quadratic forms, functions of matrices.

Even Fall

College of Sciences - Department of Mathematics

MAS 5311 - Algebra I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAS 4301 or graduate standing or C.I.

Sets and categories, groups and groupoids, group actions, the class equation, Sylow theorems, Jordan-Holder Theorem, Rings, Modules, Complexes, Factorization, and Irreducibility.

Occasional

College of Sciences - Department of Mathematics

MAS 5917 - Directed Research

College of Sciences

MAS 5937 - Special Topics

College of Sciences

MAS 6116 - Introduction to Random Matrix Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 5210 Topics in Advanced Calculus and MAS 5145 Advanced Linear Algebra and Matrix Theory, or C.I.

Introduction to random matrices, Wigner matrices and the Wigner semicircle law, Gaussian ensembles, orthogonal polynomials, eigenvalue distributions.

Occasional

College of Sciences - Department of Mathematics

MAS 6312 - Algebra II**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAS 5311 or C.I.

Modules over a principle ideal domain, Fields, Galois theory, Functors, Tensor product, Hom, Ext, Tor, Projective and Injective modules, Complexes, Derived Categories and Derived Functors.

Even Fall

College of Sciences - Department of Mathematics

MAS 6909 - Research Report

College of Sciences

MAS 6918 - Directed Research

College of Sciences

MAS 6938 - Special Topics

College of Sciences

MAS 7919 - Doctoral Research**var Credit Hours**

Contact Hours: 0

May be repeated for credit.

Occasional

College of Sciences - Department of Mathematics

MAS 7980 - Doctoral Dissertation

var Credit Hours

Contact Hours: 0

May be repeated for credit.

College of Sciences - Department of Mathematics

Mathematics: Analysis

MAA 5210 - Topics in Advanced Calculus

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAS 3105, MAP 2302, or equivalent or C.I.

Real numbers, epsilon-delta language, limits, continuity, integration, differentiation, Taylor's theorem, series, uniform convergence, inverse and implicit function theorems.

Fall

College of Sciences - Department of Mathematics

MAA 5228 - Analysis I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAS 3106 or C.I.

Real numbers, limits, differentiation, Riemann integrals, Riemann-Stieltjes integrals, calculus in \mathbb{R}^n , metric and normed spaces, contraction mapping theorem, inverse and implicit functions.

Fall

College of Sciences - Department of Mathematics

MAA 5237 - Mathematical Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 4226, or MAA 5210, or C.I.

Metric spaces, sequences, limits, and continuous functions, multi-variable function differentiation and Riemann integrals, uniform convergence, series of numbers and functions.

Odd Fall, Even Fall

College of Sciences - Department of Mathematics

MAA 5917 - Directed Research

College of Sciences

MAA 5937 - Special Topics

College of Sciences

MAA 6229 - Analysis II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 5228 or C.I.

Topological Spaces, Banach Spaces, Hilbert Spaces, Bounded Linear Operators, Distribution and Fourier Transform, Measure Theory and Function Spaces.

Spring

College of Sciences - Department of Mathematics

MAA 6238 - Measure and Probability I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 6229 or C.I.

The law of large numbers, central limit theorems, random walks, Poisson processes, stopping times, martingales.

Occasional

College of Sciences - Department of Mathematics

MAA 6245 - Measure and Probability II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

MAA 6238, or C.I. Martingales, Markov Processes, stopping times, Brownian motion, Weiner measure.

Occasional

College of Sciences - Department of Mathematics

MAA 6306 - Real Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 5210.

Sets, function spaces, Lebesgue measure, Lebesgue-Stieltjes measure, measurable functions, convergence notions, general measure and integration, Radon-Nikodym theorem.

Occasional

College of Sciences - Department of Mathematics

MAA 6404 - Complex Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 6405, MAA 4402, MAA 4226, or C.I.

Review of complex variable theory; advanced topics chosen from conformal mapping and its applications, boundary behavior, numerical techniques; singular integrals.

Occasional

College of Sciences - Department of Mathematics

MAA 6405 - Complex Variables

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 5228 or C.I.

Complex plane, analytic functions, harmonic functions, Cauchy's theorem and integral formula, maximum modulus principle, Laurent series, singularities, the residue theorem.

Spring

College of Sciences - Department of Mathematics

MAA 6416 - Topology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 4226, MTG 4302.

Topological spaces and continuous functions, connectedness and compactness, separation axioms, metrization theorems, Baire spaces and dimension theory, the fundamental group and homotopy paths.

Even Spring

College of Sciences - Department of Mathematics

MAA 6506 - Functional Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 4226 or C.I.

Normed vector spaces, linear operators, Baire Category theorem, Banach fixed point theorem, Hahn-Banach theorem and applications, open mapping and closed graph theorem with applications, Hilbert space, Gateaux and Frechet.

Even Spring

College of Sciences - Department of Mathematics

MAA 6508 - Hilbert Spaces with Applications**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 2302, MAS 3106, or C.I.

Normed and inner product spaces; Hilbert spaces; orthonormal systems; linear operators and spectral decomposition; applications to differential and integral equations.

Occasional

College of Sciences - Department of Mathematics

MAA 6531 - Analysis of Manifolds**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Matrix or Linear Algebra, MAA 4226 or MAA 5210, or C.I. Derivatives as linear transformations, inverse function theorem, manifolds and integration of real-valued functions on manifolds, wedge products, differential forms, vector analysis as a specific case.

Occasional

College of Sciences - Department of Mathematics

MAA 6909 - Research Report

College of Sciences

MAA 6918 - Directed Research

College of Sciences

MAA 6938 - Special Topics

College of Sciences

MAA 7239 - Asymptotic Methods in Mathematical Statistics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAP 6111 or C.I.

Large sample theory, martingale sequences, probability measures on metric spaces, absolute continuity and singularity, Hellinger distance, functions of statistics, asymptotic theory of estimation and applications.

Occasional

College of Sciences - Department of Mathematics

MAA 7919 - Doctoral Research

College of Sciences

Mathematics: Discrete

MAD 5205 - Graph Theory I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAD 4203, graduate standing or C.I.

Connectivity, Hamilton cycles, spanning trees, network flows, matchings, vertex and edge colorings planar graphs, extremal problems, Ramsey theory, spectral graph theory.

Odd Spring

College of Sciences - Department of Mathematics

MAD 5917 - Directed Research

College of Sciences

MAD 5937 - Special Topics

College of Sciences

MAD 6309 - Graph Theory II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

MAD 5205 or C.I. Perfect graphs, structure of 3-connected graphs, matchings, nowhere zero flows, list coloring,

extremal problems, Tutte polynomial, Hadwiger conjecture, Erdos-Hajnal conjecture, Vising's conjecture.
Occasional

College of Sciences - Department of Mathematics

MAD 6909 - Research Report

College of Sciences

MAD 6918 - Directed Research

College of Sciences

MAD 6938 - Special Topics

College of Sciences

MAD 7939 - Special Topics

College of Sciences

Mathematics: Topology and Geometry

MTG 5253 - Introduction to Differential Geometry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAC 2313 or equivalent or C.I.

Curves and surfaces in 2D and 3D, covariant derivative of a vector field, geodesics, Gauss-Bonnet Theorem.

Fall

College of Sciences - Department of Mathematics

MTG 5256 - Differential Geometry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAA 4227, graduate status or senior standing, or C.I.

Differentiable manifolds, tangent space and tangent bundle, flows and vector fields, Lie derivatives, cotangent space and cotangent bundles, Riemann metrics, connections and geodesics, applications in classical mechanics.

Occasional

College of Sciences - Department of Mathematics

MTG 5917 - Directed Research

College of Sciences

MTG 5937 - Special Topics

College of Sciences

MTG 6345 - Algebraic Topology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MTG 4302 Introduction to Topology and MAS 4301 Abstract Algebra I, or C.I.

Topics of this course include fundamental group, singular and cellular homology, cohomology rings, Poincare duality, homotopy groups.

Occasional

College of Sciences - Department of Mathematics

MTG 6908 - Independent Study

College of Sciences

Medical Electives

MDE 6170 - Core Clinical Rotation - Prenatal Genetics

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Matriculation into the M.S. Genetic Counseling Program. This course is for students to have clinical experience in Prenatal Genetic Counseling.

Fall, Spring, Summer

College of Medicine - Department of Clinical Sciences

MDE 6171 - Core Clinical Rotation - Pediatric Genetics

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Matriculation into the M.S. Genetic Counseling Program. This course is for students to have clinical experience in Pediatric Genetic Counseling.

Fall, Spring, Summer

College of Medicine - Department of Clinical Sciences

MDE 6172 - Core Clinical Rotation - Adult Oncology Genetics

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Matriculation into the M.S. Genetic Counseling Program. This course is for students to have clinical experience in Prenatal Genetic Counseling.

Fall, Spring, Summer

College of Medicine - Department of Clinical Sciences

MDE 7230 - Special Topics in Internal Medicine

6 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 10

Contact Hours: 18

Prerequisite(s): MDC 7200.

Clinical 4 week elective for M3 students who want additional experience in Inpatient Internal Medicine.

Every Semester

College of Medicine M.D. Program

MDE 7257 - Dermatology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M2 year. Corequisite(s): Must be concurrently enrolled in MDC 7600.

M3 elective in busy dermatology practice, with exposure to many common dermatologic conditions and treatments.

Every Semester

College of Medicine M.D. Program

MDE 7310 - Rheumatology Outpatient Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M2 year. Corequisite(s): Must be concurrently enrolled in MDC 7600.

This 4-week M3 elective introduces the medical student to the field of Rheumatology. The rotation provides clinical

experience in the assessment and treatment of outpatients with a variety of Rheumatology disorders.
N *Occasional'*

College of Medicine M.D. Program

MDE 7340 - Care of the Critically Ill Patient: Theory and Practice

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M2 year. Corequisite(s): Must be concurrently enrolled in MDC 7600.
Students will learn from ICU patients about the management of critical illness including aggressive life-extending therapy and setting goals of care.

Occasional'

College of Medicine M.D. Program

MDE 7690 - Orthopedic Spine Surgery Elective

6 Credit Hours

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M2 year. Corequisite(s): MDC 7600.
M3 students will get a brief sense of the outpatient (and possibly inpatient) practice of orthopedics and spine surgery.
Odd Fall, Even Fall, Odd Spring, Even Spring

College of Medicine M.D. Program

MDE 7703 - Anesthesiology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M2 year. Corequisite(s): Must be concurrently enrolled in MDC 7600.
The basics of anesthesiology, clinical and technical skills and professional attitudes will be taught so that students may gain exposure and proficiency to transition into an anesthesiology residency program.

Fall, Spring

College of Medicine M.D. Program

MDE 7716 - Emergency Medicine Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M2 year. Corequisite(s): Must be concurrently enrolled in MDC 7600.
This M3 elective rotation will give students interested in pursuing a career in Emergency Medicine an excellent exposure to the breadth of this specialty's clinical practice.

Spring

College of Medicine M.D. Program

MDE 8035 - 4th Year Elective in Patient Safety

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M2 modules and M3 core clerkships.
UCF COM Students only. Students will have the opportunity to study patient safety and quality issues in an inpatient setting and see how the application of the fundamental concepts can improve health care safety and quality.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8040 - Medical Spanish Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

At least two years of high school Spanish or equivalent language exposure. Designed for medical students with at least basic Spanish knowledge to improve their understanding of medical Spanish.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8048 - Narrative Medicine

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Completion of the M3 year. This elective introduces fourth year medical students to the nationally recognized field of Narrative Medicine and teaches them to apply concepts of attention, representation and affiliation to patient and self care.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8051 - The History of Western Medicine Elective

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Completion of the M3 year. This course will explore the history of medicine from Hippocratic medicine to the sequencing of the human genome through the biography of its most prominent figures.

Fall, Spring

College of Medicine - M.D. Program

MDE 8064 - Ward Ethics Elective**3 Credit Hours**

Class Hours: 12 hrs/week

Lab and Field Work Hours: 0

Contact Hours: 12 hrs/week

Prerequisite(s): Completion of M3 year, C.I.

Provide medical students with a learning platform to identify, reflect, discuss, and prepare for everyday ward ethical challenges in their clerkship and residencies.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Medicine M.D. Program

MDE 8072 - International Elective**VAR Credit Hours**

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Successful completion of M3 core clerkships.

Students interested in completing an elective outside the U.S. should contact the Office of Student Affairs. Additional information may be available from Director of International Health Programs. Student must arrange approval process early in the third year.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8080 - 4th Year Elective in Health Information Technology**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M2 modules and M3 core clerkships.

Students will identify and explore a variety of topics on information technology's intersection with medicine. Topics include electronic and personal health records, information security and knowledge resources at the point of care.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8081 - Telemedicine Elective

3 Credit Hours

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of M3 year.

This is an introductory course to familiarize students with key concepts, competencies, and applications of Telemedicine.

Every Semester

College of Medicine M.D. Program

MDE 8082 - Teleurgent Care Elective

3-6 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2-5

Contact Hours: 3-6

Prerequisite(s): Completion of the M2 year.

This is an introductory course to introduce students with key concept, competencies, and application of Teleurgent Care.

Every Semester

College of Medicine M.D. Program

MDE 8092 - MedEd Instructional Materials Development: Moving Beyond the PowerPoint

6 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M2 year.

This course introduces students to basic principles of instructional design and pedagogy.

Every Semester

College of Medicine M.D. Program

MDE 8093 - Clinical Anatomy Teaching Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

M4 medical students can participate as teaching assistants in the human anatomy laboratory component of the UCF COM HB-2 module.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8094 - Simulation in Medical Education Elective

3 Credit Hours

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M3 year.

After reviewing current trends, literature and methodologies in medical simulation, learners will design and deliver one complete scenario to their peers in a simulated clinical setting.

Every Semester

College of Medicine M.D. Program

MDE 8095 - Integrative Reproductive Medicine E-text Development

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3 Core Clerkships. Students will design a series of short interactive e-modules for preclinical students on a subject in reproductive medicine. Elective includes training in educational technology.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8097 - WikiProject Medicine: A Medical Informatics Elective for Enhancing the Quality of Patient Education

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s):

Completion of M3 clerkships.

This course enables students to improve and enrich the quality of reliable information read by patients on Wikipedia by becoming a WikiProject Medicine Editor.

Spring, Summer, Fall

College of Medicine - M.D. Program

MDE 8099 - Evidence Based Medical Education: Shaping the Education of Future Physicians

6 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M2 year.

Participants examine learning experience through the lens of evidence-based practice, and established models of human learning and instructional design.

Odd Fall, Even Fall

College of Medicine M.D. Program

MDE 8105 - Culinary Medicine Elective**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. Culinary Medicine is a unique approach to nutrition education that integrates medical nutrition therapy principles with culinary medicine techniques. The goal is to teach patients what to eat and how to deliciously prepare meals in their own home kitchens.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8110 - Elective in Reproductive Endocrinology and Infertility**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Experience evaluating new and returning patients in REI clinic: participation in preoperative, operative and inpatient postoperative care, advanced gynecologic ultrasonography, and IVG services.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8124 - Elective in Patient and Family Centered Care**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Completion of the M3 year. This elective introduces fourth year medical students to the philosophy and practice of Patient and Family Centered Care through active engagement in clinical experiences that underscore basic PFCC tenants of respect and dignity, collaboration, open information sharing and meaningful participation which correlate directly to three of the Association of American Medical Colleges' Entrustable Professional Activities for medical students.

Fall, Spring

College of Medicine - M.D. Program

MDE 8127 - Lifestyle Modification Skills in Practice

3-6 Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Completion of the M2 year.

This elective will provide hands on practice with patients taking detailed lifestyle assessments and coaching patients to achieve beneficial lifestyle changes and also by helping run group visits.

Odd Spring, Even Spring

College of Medicine M.D. Program

MDE 8140 - Geriatric Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week 4th year elective experience will provide advanced clinical training and experience in the selective specialty. Provides a menu of options for exposure and experience in geriatric medicine.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8147 - Geriatric Elective

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of the M3 year.

Students will select one of two experiences based on their goals. The menu of options will include either a geriatric primary care clinic, including home visits within an upscale retirement complex, or an academic geriatric/pharmacological experience.

Spring, Odd Summer, Fall

College of Medicine - M.D. Program

MDE 8150 - Hospice and Palliative Care Rotation

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

This two or four week rotation will provide students with extensive exposure to palliative and end of life care.
Spring, Summer, Fall

College of Medicine - M.D. Program

MDE 8152 - Palliative and Pain Management Principles

3-6 Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): MDC 7200.

This non-clinical elective covers the key principles of palliative care and pain management.
Odd Fall, Even Fall

College of Medicine M.D. Program

MDE 8160 - Obstetrics and Gynecology Ambulatory Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. The Ob/Gyn Ambulatory elective is available to 4th year medical students to acquire a comprehensive experience in obstetrics and gynecology. The experience will be both outpatient and inpatient and include participation in all aspects of care for women. The student will participate in obstetric and gynecologic consultations, attending outpatient clinics, assisting in the operating room with obstetric and gynecologic cases, and participating in pre-op and post-op care.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8162 - Gynecologic Oncology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. The student works with two experienced educators on a busy service. There is a large volume of tumor/cancer cases (robotic, laparoscopic, open, perineal).

Fall, Spring

College of Medicine - M.D. Program

MDE 8165 - Elective in Gynecology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. The Gynecology elective is available to 4th year medical students to acquire a comprehensive experience with commonly treated gynecologic issues for women. The experience will include performing inpatient and emergency gynecologic consultations, attending outpatient clinics, assisting in the operating room with gynecologic cases and participating in following gynecologic patients with breast disorders in the breast clinic.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8182 - Advanced Prenatal Diagnosis Clinic**6 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

This 4 week elective will offer medical students insight into the specialty of Maternal-Fetal Medicine and Genetics Counseling.

Every Semester

College of Medicine M.D. Program

MDE 8204 - In-Patient Medicine Elective**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

completion of the M3 year. Students will be assigned to an in-patient team consisting of a medical resident and a teaching hospitalist. Students will follow assigned patients throughout their hospitalization and be responsible along with the resident for their care.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8205 - Elective in Ambulatory Internal Medicine**3-6 Credit Hours**

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M3 year.

This 2 or 4 week experience will provide advanced clinical training in the care of patients age 16 and older in an ambulatory clinic setting.

Odd Fall, Even Fall

College of Medicine M.D. Program

MDE 8207 - Sleep Medicine Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M3 clerkships.

The sleep medicine rotation is designed to expose students to the specialty of sleep medicine including screening, diagnosis, testing, and treatment of common sleep disorders.

Spring, Summer, Fall

College of Medicine - M.D. Program

MDE 8208 - Advanced Physical Diagnosis

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M3 Core Clerkships.

C.I. Advance techniques in physical diagnosis as an aid in data collection and syntheses of differential diagnosis.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8209 - Nanomedicine Elective

6 Credit Hours

Class Hours: 14 hrs/week

Lab and Field Work Hours: 0

Contact Hours: 14 hrs/week

Prerequisite(s): Completion of M3 year.

Introduces students to nanomedicine as a branch of medicine that applies the knowledge and tools of nanotechnology to the disease screening, diagnosis, treatment, and prevention.

Odd Fall, Even Fall

College of Medicine M.D. Program

MDE 8210 - Advanced Physiology of the Critically Ill Patient

3-6 Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Completion of the M2 year.

This online course offers advanced integration of advanced physiology and ICU cases in online meetings with physiologists and intensivists to do case evaluation and working through mechanism of disease analyses.

Odd Summer, Even Summer

College of Medicine M.D. Program

MDE 8220 - Clinical Cardiology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. Clinical rotation in cardiology with emphasis on gaining basic knowledge in diagnosis and management of common cardiovascular conditions.

Fall, Spring

College of Medicine - M.D. Program

MDE 8222 - Ambulatory Elective in Cardiology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The four week 4th year elective experience will provide advanced clinical training in the outpatient care of adult cardiology patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8223 - Cardiology-Inpatient/Outpatient

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The student will develop an understanding of the pathophysiology and cardiovascular disease and learn an approach to the evaluation and treatment of patients with cardiovascular disease.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8225 - Congenital Cardiology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0
Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
In-depth exposure to pediatric cardiology including patients with congenital heart disease in the inpatient, outpatient, CVICU, and operative room settings.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8226 - Clinical Cardiac Electrophysiology Elective

3 or 6 Credit Hours Credit Hours

Class Hours: 0
Lab and Field Work Hours: 0
Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M3 year.
The student will gain an in-depth understanding of advanced medical and surgical management of cardiac rhythm disorders.
Every Semester'

College of Medicine M.D. Program

MDE 8227 - Advanced ECG Self-Study Elective

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Completion of the M3 year. Students will engage in a 2 week intense ECG self-study review with weekly meeting sessions.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8245 - Pulmonary Elective

6 Credit Hours

Class Hours: 6
Lab and Field Work Hours: 0
Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
Inpatient and outpatient management of pulmonary diseases and sleep disorders.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8246 - Ambulatory Elective in Pulmonary Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult pulmonary medicine patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8248 - Elective in Pulmonary Critical Care and Sleep Medicine**3 Credit Hours**

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of M3 year.

This elective will give the students an extensive exposure with insights into the specialty of pulmonary/critical care/sleep medicine.

Every Semester

College of Medicine M.D. Program

MDE 8250 - Dermatology Elective**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The student will be exposed to almost all aspects of diagnosis and treatment within dermatology (pediatrics to geriatric), surgical dermatology (routine, Moh's, laser), cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services and dermatopathology).

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8251 - Dermatology Clinic Elective**VAR Credit Hours**

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Successful completion of M3 core clerkships.

This elective will provide exposure to a general dermatology practice.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8252 - Ambulatory Elective in Dermatology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult dermatology patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8254 - Advanced Dermatology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships and satisfactory completion of Dermatology elective.

This elective will expose the student to almost all aspects of diagnosis and treatment within general dermatology and provide additional opportunities in research and office management.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8256 - Trichology

Prerequisite(s): Completion of the M3 year.

In-office rotation. Clinical diagnosis and clinical/surgical treatment of various hair disorders.

Every Semester

College of Medicine M.D. Program

MDE 8262 - Ambulatory Elective in Endocrinology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult endocrinology patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8270 - Gastroenterology Inpatient/Outpatient

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The student will develop an understanding of the pathophysiology of gastrointestinal disease and learn an approach to the evaluation and treatment of patients with gastrointestinal disease.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8271 - Ambulatory Elective in Gastroenterology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult gastroenterology patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8280 - Hematology/Oncology Inpatient/Outpatient

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This course provides an in-depth exposure to the diagnosis and treatment of hematologic disease and malignancy in the hospital and outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8281 - Ambulatory Elective in Hematology/Oncology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult hematology/oncology patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8283 - Hematologic Oncology and Bone Marrow Stem Cell Transplantation

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Provides an in-depth exposure and experience in hematologic malignancies and bone marrow hematopoietic stem cell transplantation. Patients seen will have wide range of malignancies such as leukemia, lymphoma, myeloma, Hodgkins disease and bone marrow failure syndrome such as aplastic anemia.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8285 - Diagnostic Hematology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The student will be working closely with the hematopathologist, immunopathologist, clinical hematologists, senior residents and supervisors of the hematology section; he/she will both observe and participate in the usual studies performed in these areas.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8310 - Ambulatory Elective in Rheumatology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult rheumatology patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8320 - Infectious Diseases-Inpatient/Outpatient

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This course provides an in-depth exposure to the diagnosis and treatment of infectious diseases in the hospital and outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8321 - Ambulatory Elective in Infectious Disease and Travel Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult infectious disease/travel medicine patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8341 - Internal Medicine/Critical Care Medicine Elective

Prerequisite(s): Completion of the M3 year.

Rotation includes teaching of mechanical ventilation, ACLS, dialysis, bedside ultrasounds, vasopressors, antibiotics, and other subjects relevant to practice of critical care medicine.

Every Semester

College of Medicine M.D. Program

MDE 8342 - Surgical Critical Care

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 10

Contact Hours: 18

Prerequisite(s): Completion of the M3 year.

Expose students to acute and daily management of surgical critical care patients.

Every Semester

College of Medicine M.D. Program

MDE 8344 - Ambulatory Elective in Acute Care Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

This four week 4th year elective experience will provide advanced clinical training in the outpatient care of adult acute care patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8345 - Wound Care

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

Provides an in-depth exposure to the patient with open wounds, precursor and follow-up of healed wounds.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8350 - Nephrology Inpatient/Outpatient

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This course provides an in-depth exposure to the diagnosis and treatment of renal disease in the hospital and outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8351 - Ambulatory Elective in Nephrology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult nephrology patients in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8362 - Clinical Pharmacology Elective

Prerequisite(s): Completion of the M3 year.

This course will offer exposure to inpatient pediatric and women's health pharmacology with a focus on basic pharmacology concepts and opportunities for self-directed learning.

Every Semester

College of Medicine M.D. Program

MDE 8364 - Insights into the Medication Use Process

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of the M2 year.

Explore the medication use process (prescribing, transcribing/documenting, dispensing, administering, and monitoring) using a variety of virtual learning platforms.

Odd Fall, Even Fall

College of Medicine M.D. Program

MDE 8370 - Essentials of Musculoskeletal Care Elective

6 Credit Hours

Class Hours: 40/week

Lab and Field Work Hours: 0

Contact Hours: 40/week

Prerequisite(s): Completion of M3 year.

The elective will provide students opportunity to learn initial evaluation, work-up and conservative treatment of various musculoskeletal complaints.

Odd Spring, Even Spring

College of Medicine M.D. Program

MDE 8391 - Integrative Medicine Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

This elective rotation that provides introductory sessions and workshops will be presented by community practitioners and preceptors focusing on different modalities of integrative medicine; botanicals, homeopathy, mind/body, nutrition, traditional Chinese medicine, osteopathy, and energy medicine.

Spring

College of Medicine - M.D. Program

MDE 8400 - Pediatric Hospitalist

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Provides an in-depth exposure and experience in hospital level care of admitted patients, ages birth through 18 years, consults and admissions.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8404 - Ambulatory Pediatrics Elective**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This elective is designed to acquaint the student with the management of acute pediatric illness in an outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8409 - General Outpatient Pediatrics Clinic**3-6 Credit Hours**

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of M3 year.

This rotation will give the student a broad exposure to general pediatrics focusing on outpatient primary care.

Every Semester

College of Medicine M.D. Program

MDE 8410 - Adolescent Medicine Elective**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This elective is designed to acquaint the student with the fundamentals of adolescent medicine by providing outpatient, community based exposure to the care of adolescents.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8412 - Pediatric Telehealth Elective

3-6 Credit Hours

Class Hours: 6-12

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Completion of M3 year.

This elective will provide a broad learning experience in telehealth.

Every Semester

College of Medicine M.D. Program

MDE 8415 - Developmental/Behavioral Pediatric Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This program emphasizes the use of multiple disciplines and community resources that specialize in developmental issues.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8420 - Pediatric Cardiology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This clinical rotation will introduce the student to the outpatient pediatric cardiology practice with the goals of developing basic cardiology skills such as data collection and clinical examination. EKG interpretation, basic echocardiography, basic catheterization will be introduced.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8425 - Pediatric Pulmonary Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This clinical course will be based on basic respiratory physiology and will include a variety of clinical pulmonary experiences and diseases.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8430 - Pediatric Endocrinology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

Provide in-depth exposure and experience in the diagnosis and treatment of endocrine disorders with a focus on the multidisciplinary care of the diabetic child; also, growth disorders, disorders of puberty and obesity, and its complications.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8433 - Pediatric Gastroenterology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Students will be exposed to a wide spectrum of pediatric gastrointestinal and liver diseases.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8438 - Genetics and Dysmorphology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This elective will introduce the student to the evaluation and treatment of pediatric patients with a known or suspected genetic, cyto genetic, metabolic, or dysmorphic disorder.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8440 - Pediatrics Hematology/Oncology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
Pediatrics hematology and oncology including bone marrow transplant.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8445 - Pediatric Nephrology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
This rotation is designed to familiarize the student with the wide range of pediatric kidney diseases encountered in the ICU, inpatient service and outpatient departments.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8454 - Pediatric Infectious Diseases

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
Introduction to the clinical aspects of the diagnosis and treatment of infectious diseases in children.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8460 - Neonatology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
This elective is designed to expose the student to normal physiology and a wide variety of disease that affect the term and pre-term newborn.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8465 - Pediatric Critical Care and ICU Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0
Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
This course is designed to give students the experience of caring for critically ill patients ranging from infancy through adolescence in the ICU/SCU setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8466 - Acting Internship in General Outpatient Pediatrics with Nursery

6 Credit Hours

Class Hours: 40 hrs per week
Lab and Field Work Hours: 0
Contact Hours: 40 hrs per week

Prerequisite(s): Completion of M3 year.
Daily rounding in Level I nursery and outpatient general pediatrics.

Every Semester

College of Medicine M.D. Program

MDE 8480 - Special Topics in Pediatric Ophthalmology

6 Credit Hours

Class Hours: 0
Lab and Field Work Hours: 6
Contact Hours: 6

Prerequisite(s): Completion of the M2 Year.

This course provides advanced clinical training in pediatric ophthalmology.
Every Semester

College of Medicine M.D. Program

MDE 8485 - Pediatrics Orthopaedics Elective

6 Credit Hours

Class Hours: 6
Lab and Field Work Hours: 0
Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
This rotation will expose the student to a wide variety of pediatrics orthopaedic problems affecting the growing musculoskeletal system.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8490 - Pediatric Surgery Selective and Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Participates in outpatient, inpatient and intra-operative treatment of children.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8491 - Pediatric Neurosurgery**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

An introduction to Pediatric Neurosurgery.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8500 - Pediatric Dermatology**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Overview of pediatric dermatology including common skin dermatoses, birthmarks, genodermatoses in both outpatient and inpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8505 - Pediatrics Emergency Medicine**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M3 Core Clerkships.

This elective will provide students with experience assessing and caring for children in a Pediatrics Emergency Department that provides emergent and urgent care to patients aged 0-17 years old, including pregnant adolescent patients in their first trimester. Students will be exposed to a wide variety of illnesses and injuries, including critical illnesses, and primary care diagnoses. Supervision will be provided by attending physicians in Pediatrics, Emergency Medicine or Pediatrics Emergency Medicine. Students will perform an initial rapid assessment followed by a thorough history and physical examination, and then generate a differential diagnoses and preliminary management plan. All

management decisions will be discussed with a senior resident or attending physician.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8511 - Pediatric Anesthesia Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. This two- or four-week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric anesthesiology.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8512 - Pediatric/Adolescent Gynecology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. The pediatric and adolescent gynecology elective is designed to expose medical students to the full spectrum of gynecologic services for the pediatric and adolescent population while remaining within a developmentally appropriate, supportive environment. Students will also participate in the surgical management of endometriosis and ovarian cysts.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8520 - Advanced Clinical Anatomy

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Student will plan and implement a program to study and demonstrate the anatomy, current literature and surgical approaches related to a contract agreed upon by student and elective supervisor at the start of the elective.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8530 - Pathology and Laboratory Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Provides introduction to all areas of pathology practice with emphasis on anatomic pathology disciplines.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8532 - Clinical Pathology Methods and Interpretation

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The course is designed to acquaint the student with all aspects of a large hospital clinical laboratory. The student will learn the capabilities of the laboratory by rotating through hematology, immunology, chemistry and microbiology.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8533 - Forensic Pathology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M3 clerkships.

This course is designed to provide students with exposure to forensic pathology and death investigation. Students will participate in autopsies and death investigation.

Spring, Fall

College of Medicine - M.D. Program

MDE 8534 - Surgical Pathology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The course is designed to provide the student with the opportunity for surgical specimen preparation and interpretation. Emphasis is placed on normal gross and histologic findings, gross and microscopic pathology and clinicopathologic correlation of the patient's disease process.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8535 - Autopsy Pathology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Provide the student with the opportunity for in-depth study and performance of complete autopsies.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8550 - Clinical Ophthalmology Elective**VAR Credit Hours**

Class Hours: 1.5-6

Lab and Field Work Hours: 0

Contact Hours: 1.5-6

Prerequisite(s): Successful completion of M3 core clerkships.

An eye clinic based experience where students will master ophthalmoscopy, ophthalmic examination skills, and participate in general and specialty eye surgery and clinics.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8555 - Special Topics in Ophthalmology**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M2 year.

This course will provide advanced clinical training for students with an interest in ophthalmology.

Every Semester

College of Medicine M.D. Program

MDE 8582 - Physical Medicine and Rehabilitation Elective - Psychiatry**3-6 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 9-12

Contact Hours: 9-18

Prerequisite(s): Completion of the M3 year.

Provide medical students a broad exposure to the field of physical medicine and rehabilitation.

Odd Spring, Even Spring

College of Medicine M.D. Program

MDE 8590 - Otolaryngology - Head and Neck Surgery Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. This elective rotation is led by internationally respected surgeons skilled in Otolgic/Neurologic head and neck surgery. Students work with 5 surgeons to learn the basics of Oto-HNS surgery.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8591 - Pediatric Maxillofacial and Craniofacial Surgery Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This course is designed to provide trainees with expanded clinical training in the areas of cleft, craniofacial and pediatric oral and maxillofacial surgery.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8592 - Pediatric Otolaryngology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. This rotation will allow students interested in pediatric primary care to spend time with our busy service learning about medical and surgical care of common pediatric head and neck, upper airway, and otologic conditions of children. This will take place in the inpatient/outpatient/operating room settings.

Fall, Spring

College of Medicine - M.D. Program

MDE 8603 - Elective in Orthopaedic Patient Care and Surgical Techniques

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. M4 students will be exposed to the daily interactions with patients needing musculoskeletal care, medical evaluations, review of history, care options and surgical techniques. All patients are sports medicine related injuries. Students will get exposure to orthopedic sports medicine injuries and arthritic condition of the lower extremity.

Fall, Spring

College of Medicine - M.D. Program

MDE 8605 - Vascular Surgery Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3 academic year. Student will actively participate in clinical care of vascular surgery patients including operating rooms. Student may present cases at conference.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8606 - Introduction to the Ambulatory Surgical Center

Prerequisite(s): Completion of the M3 year.

This course will introduce the medical student to health care delivery in an ambulatory surgical setting.

Fall, Spring

College of Medicine M.D. Program

MDE 8607 - Non-Clinical Advanced Surgery Elective

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 0

Contact Hours: 30/week

Prerequisite(s): Completion of the M2 year.

Remote surgery elective comprised of operative videos, independent study, and web-based meetings, encompassing the core competencies of surgery and elective material in a sub-specialty.

Odd Spring, Even Spring, Odd Summer, Even Summer

College of Medicine M.D. Program

MDE 8631 - General Thoracic Surgery Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. Elective rotation for 4th year medical student in General Thoracic Surgery where students learn to take care of thoracic surgery patients.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8632 - Cardiothoracic Surgery

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 academic year. The student will be joining the team in daily rounds, scrubbing in surgeries, and following post-operative patients, and participating in a weekly outpatient clinic.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8660 - Plastic Surgery Elective

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

This rotation has been designed to expose the 4th year medical student to the diversity of plastic surgery, by having him/her work with several UCF College of Medicine plastic surgeons whose interests and practice patterns vary.

Fall, Spring, Summer

College of Medicine M.D. Program

MDE 8663 - Aesthetic Plastic Surgery

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Rotation providing a focused learning experience in aesthetic surgery; students with interest in facial reconstruction may elect to take call or become involved in complex facial trauma reconstruction at the regional trauma center.

Spring, Summer, Fall

College of Medicine M.D. Program

MDE 8675 - Urology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. Elective in clinical urology with a focus on inpatient, outpatient and surgical aspects of urology.

College of Medicine - M.D. Program

MDE 8676 - Colon and Rectal Surgery Elective

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Completion of the M3 clerkships.

This rotation will include workup, diagnosis, and treatment/follow up of surgical diseases involving the colon, rectum, and anus in both inpatient and outpatient settings.

Every Semester

College of Medicine M.D. Program

MDE 8682 - Introduction to Trauma and Surgical Critical Care Elective**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3 year. This course will expose students to the multidisciplinary nature of modern trauma care while providing ample opportunity to learn and understand core principles of trauma, critical care, and emergency general surgery.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8683 - Trauma and Orthopaedics Elective**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The course is designed to present to the student the basic aspects of orthopaedic care.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8691 - Intro to Ortho Surgery and Musculoskeletal Care**3-6 Credit Hours**

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of the M3 year.

The student will be exposed to a wide variety of musculoskeletal issues both acute and chronic. They will improve their physical diagnosis skills, learn the use of appropriate imaging options, and be involved in formulating a treatment plan and go to surgery with preceptor.

Every Semester

College of Medicine M.D. Program

MDE 8700 - Anesthesia Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. With a combination of clinical and didactic experiences, students will learn the role play as perioperative physicians, intensivist, and pain management specialists.

College of Medicine - M.D. Program

MDE 8702 - Anesthesia Elective at VA

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. Medical students will learn the multi-faceted role anesthesiologists play in medicine as perioperative physicians and pain management specialists.

College of Medicine - M.D. Program

MDE 8710 - Emergency Medicine Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M3 Core Clerkships.

This course allows students with interest in EM to fully explore the reality of being an Emergency Physician within a busy Emergency Department. There will be opportunity to participate in the management of all ED patients from the critically ill to the minor complaints.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8760 - Elective in Radiology

VAR Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Successful completion of M3 core clerkships.

Student will rotate with radiologists at APH or ORMC. Exposure to subspecialties within radiology including interventional, neuroradiology, pediatric, GI/GU, oncology and trauma.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8763 - Diagnostic Radiology Clerkship

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M3 Core Clerkships.

In-depth exposure to diagnostic radiology.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8765 - Diagnostic and Interventional Radiology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M3 year

A fourth-year elective for eligible medical students in diagnostic and interventional radiology.

Fall, Spring

College of Medicine - M.D. Program

MDE 8765 - Diagnostic and Interventional Radiology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

A fourth year elective for eligible medical students in diagnostic and interventional radiology.

Spring, Summer, Fall

College of Medicine - M.D. Program

MDE 8767 - Neuro-Radiology

VAR Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Successful completion of M3 core clerkships.

Evaluation and interpretation of modalities used to image the central nervous system.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8769 - Pediatric Radiology Elective

VAR Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Successful completion of M3 core clerkships.

Provides an in-depth exposure and experience in pediatric radiology.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8773 - Emergency Ultrasound Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 academic year. This elective is intended to help integrate knowledge, skill and experience to perform and interpret ultrasound imaging at the patient's bedside.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8775 - Pediatric Ultrasound Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

This two or four-week elective rotation, open to fourth-year medical students, will provide a broad learning experience in pediatric ultrasound.

Fall, Spring

College of Medicine - M.D. Program

MDE 8775 - Pediatric Ultrasound Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s):

Completion of the M3 year.

This two or four-week elective rotation, open to fourth-year medical students, will provide a broad learning experience in pediatric ultrasound.

Spring, Summer, Fall

College of Medicine - M.D. Program

MDE 8780 - Radiation Oncology Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3 core clerkships. This clinical rotation will involve exploring the field of radiation oncology through basics of cancer medicine, diagnosis of strategy and treatment of cancer, and radiation physics.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8790 - Special topics in Anesthesiology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

This elective provides M3 and M4 medical students with advanced clinical training in anesthesiology.

Every Semester

College of Medicine M.D. Program

MDE 8807 - Neuro-Oncology

VAR Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Successful completion of M3 core clerkships.

Evaluation and clinical care of patients with brain tumors and neurological complications of cancer.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8820 - Interventional Pain Management Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of M3 year.

Four-week elective rotation providing clinical experience in an outpatient setting in the field of interventional medicine.
Odd Fall, Even Fall, Odd Spring, Even Spring

College of Medicine - M.D. Program

MDE 8823 - Outpatient Pain Management and Neurology Elective

3 or 6 Credit Hours Credit Hours

Prerequisite(s): Completion of the M3 year.

M4 students will learn non-opioid options for chronic pain management, as well as appropriately prescribing controlled medications when necessary.

Every Semester'

College of Medicine M.D. Program

MDE 8831 - Outpatient Psychiatry Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M2 year. Completion of the Core Clerkship in Psychiatry.

Students will be given progressive clinical responsibilities in the assessment and treatment of psychiatric patients.

Every Semester

College of Medicine M.D. Program

MDE 8835 - M4 Acting Internship Psychiatry VA Residential Care at Domiciliary

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Responsibility for clinical assessment and treatment planning for residential care patients with special emphasis on substance related disorders and PTSD at VA Medical Center Domiciliary.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8836 - Psychiatry Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3 academic year and instructor consent. Responsibility for clinical assessment and treatment planning for residential care patients.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8838 - Clinical Psychiatric Pharmacology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Provides an in-depth exposure and experience in psychiatric pharmacology protocols.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8844 - Post-Traumatic Stress Disorder Clinic

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 academic year; Instructor consent; UCF COM students only. Participate in the assessment and treatment of patients with combat-related post-traumatic stress disorder. Experiences may include diagnostic assessments, assisting in conducting individual and group treatments and participating in ongoing research protocols.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8873 - Child and Adolescent Psychiatry - Outpatient Elective

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

M4 students will be given progressive clinical responsibilities in the assessment and treatment of patients at Orange Psychiatric Associates.

Fall

College of Medicine M.D. Program

MDE 8883 - Geriatric Psychiatry Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.
Responsibility for clinical mental health assessment and treatment.
Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8890 - Academic Psychiatry Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

In this elective, students will develop a scholarly project, do clinical and classroom teaching of junior medical students, and help deliver resident as teacher didactics to residents.

Spring, Fall

College of Medicine - M.D. Program

MDE 8891 - Special Topics in Psychiatry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of the M2 year. Completion of MDC 7830 Core Clerkship in Psychiatry.

This elective allows for advanced clinical training in Psychiatry in both inpatient and outpatient settings.

Every Semester

College of Medicine M.D. Program

MDE 8892 - Special Topics in Neurology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

This rotation allows M3 and M4 student to gain advanced clinical experience in neurology.

Every Semester

College of Medicine M.D. Program

MDE 8900 - Directed Study/Independent Study

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Prior approval required.

Individual study by students under the direction of a faculty member and with the approval of the Assistant Dean of Medical Education and the Associate Dean of Students. Topics vary and will be selected on an individual basis. Credit hours and student level may vary.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDE 8910 - Medical Externship in Interdisciplinary Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Completion of the M1 year.

This flexible research externship will provide opportunities for M1-M4 medical students to refine research skills for special projects/patents as well as preparation for residency match.

Spring, Summer, Fall

College of Medicine - M.D. Program

MDI 8555 - Acting Internship in Clinical Ophthalmology

6 Credit Hours

Class Hours: 40 hrs per week

Lab and Field Work Hours: 0

Contact Hours: 40 hrs per week

Prerequisite(s): Completion of M3 year.

This rotation will provide greater exposure to diagnosis, management, and surgical treatment of clinical ophthalmology cases encompassing cornea, retina, glaucoma, and oculoplastic and reconstructive surgery.

Odd Summer, Even Summer

College of Medicine - M.D. Program

Medical Externships

MDX 8011 - Extramural Clerkship

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Extramural elective offers students the opportunity to gain experience at an LCME accredited medical school and its affiliated facilities. Interested students should contact the Office of Student Affairs for information regarding extramural (visiting) elective.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDX 8900 - Independent Study/Research Elective Away

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Elective away permits fourth year medical students to pursue areas of study/research outside of UCF. Arrangements are made between the student, the away supervising faculty member and must be supervised by a UCF College of Medicine faculty member.

Fall, Spring, Summer

College of Medicine - M.D. Program

Medical Internships

MDI 8120 - Acting Internship in Family Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

This four week experience will provide advanced clinical training in the care of patients of all ages in the hospital and clinic settings.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8160 - Acting Internship in Obstetrics and Gynecology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of Core Clerkship in Obstetrics and Gynecology. Experience comparable to a month of obstetrics and gynecology internship, during which the student will function as an intern under the supervision of the senior resident/s and attending physician.

College of Medicine - M.D. Program

MDI 8162 - Acting Internship in Benign Gynecology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

Experience comparable to a month of gynecologic internship, during which the student will function as an intern under supervision of senior resident(s) and attending physician.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8164 - Acting Internship in Gynecologic Oncology

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Provides an in-depth exposure and experience in gynecologic oncology.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8165 - Acting Internship in Obstetrics

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

Experience comparable to a month of obstetric internship, during which the student will function as an intern under the supervision of the senior resident and attending physician.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8200 - Acting Internship in Internal Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week experience will provide advanced clinical training in the outpatient care of adult medical patients.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8201 - Acting Internship Internal Medicine, Inpatient

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week experience will provide advanced clinical training in the care of adult medical patients in the inpatient and outpatient settings.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8247 - AI in Medicine Critical Care and Pulmonary Diseases**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. Immerses the student in the care of MICU patients by focusing on technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8300 - Acting Internship in Allergy/Asthma/Immunology**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. The student will see patients with allergy disorders in the outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8340 - Acting Internship in Internal Medicine Acute Care**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This four week experience will provide advanced clinical training in the care of acutely ill hospitalized adult medical patients.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8342 - Acting Internship in Critical Care

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M-3.

Immerses the student in the care of patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8343 - Acting Internship in Surgery Critical Care**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. Immerses the student in the care of SICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8344 - Acting Internship in Medicine Critical Care**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. Immerses the student in the care of MICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8400 - Acting Internship in General Pediatrics Inpatient**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

This elective is designed to acquaint the student with the management of acute pediatric illness in the hospital setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8461 - Acting Internship in Neonatal ICU

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. This acting internship is designed to expose the student to normal physiology and a wide variety of diseases that affect the term and preterm newborn.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8463 - Acting Internship in Pediatric Critical Care**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. Immerses the student in the care PICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8470 - Acting Internship in Pediatric Neurology/Epilepsy**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of Core Clerkship in Neurology. C.I. Evaluate treatment of inpatient and outpatient Pediatric Neurology patients, with exposure to acutely ill patients in ICU to evaluations of Epilepsy/Seizures, Movement Disorders and Headache.

College of Medicine - M.D. Program

MDI 8490 - Acting Internship Pediatric Surgery**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The fourth year medical student on Pediatric Surgery (AI) will build upon their surgical clerkship experience with exposure to the workup, diagnosis and treatment/follow-up of surgical diseases involving neonates, infants and children in both the inpatient and outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8570 - Acting Internship in Pediatric Orthopedic Surgery

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3 academic year. The student in AI Pediatric Orthopedic Surgery will be focused on the orthopedic surgical care of children. He/she will lead the orthopedic surgical service in the outpatient and inpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8571 - Acting Internship in Adult Orthopaedic Surgery**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Completion of the M3 year

This fourth year medical student rotation is structured to develop clinical skills in the six ACGME competencies as they apply to adult orthopaedic surgical care.

Fall, Spring

College of Medicine - M.D. Program

MDI 8600 - Acting Internship in General Surgery**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Completion of core clerkship in surgery. The fourth year medical student on the General Surgery Acting Internship will build upon the surgical core M3 rotation and further explore the workup, diagnosis and treatment/follow-up of surgical diseases in both the inpatient and outpatient setting.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8650 - Acting Internship in Neurosurgery**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3. C.I. This four-week experience will provide advanced clinical training to prepare the 4th-year medical student for the rigors of surgical internship (with neurosurgical focus).

College of Medicine - M.D. Program

MDI 8661 - Acting Internship in Oculo-Facial Plastic and Reconstructive Surgery

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s):

Completion of M3 year.

This 4-week AI rotation will provide greater exposure to diagnosis, management and surgical correction of ophthalmic and reconstructive disorders.

Spring, Summer, Fall

College of Medicine - M.D. Program

MDI 8676 - Acting Internship Colon and Rectal Surgery**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The fourth year medical student on the colon and rectal surgery acting internship will build upon the surgical core M3 rotation and further explore the workup, diagnosis and treatment/follow-up of surgical diseases involving the colon, rectum and anus in both the inpatient and outpatient settings.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8710 - Acting Internship in Emergency Medicine**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of M3 clerkships. This four-week rotation introduces the student to initial evaluation, workup, diagnostic ordering and treatment of patients presenting in the emergency department.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8802 - Acting Internship in Clinical Neurological Ophthalmology**6 Credit Hours**

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. An eye clinic based experience where students will master ophthalmoscopy, ophthalmic examination skills, and participate in general and specialty eye surgery and clinics.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8833 - Acting Internship Psychiatry Advanced Therapies

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

Clinical assessment and treatment experience with child, adolescent and adult populations with treatment-resistant, "dual diagnoses" (psychiatric comorbidities) in residential and day treatment settings.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8840 - Acting Internship in Psychiatry

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

Increased level of responsibility for clinical assessment and treatment planning in walk-in/triage clinic at VA. Additional responsibility for teaching third year medical students.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8841 - Acting Internship in Consultation Liaison Psychiatry

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. As acting interns, M4 students will be given progressive clinical responsibilities in the assessment and treatment of patients hospitalized on medical and surgical wards at the Lake Nona Orlando V.A. Medical Center that have concomitant psychiatric conditions.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8842 - Acting Internship in Emergency Psychiatry

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Completion of the M3 year. As acting interns, M4 students will be given progressive clinical responsibilities in the psychiatric assessment and treatment of patients presenting for urgent care at the Lake Nona Orlando V.A. Medical Center Emergency Room.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDI 8843 - Acting Internship in Inpatient Psychiatry

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Completion of the M3 year.

As acting interns, M4 students will be given progressive clinical responsibilities in the assessment and treatment of patients hospitalized on the psychiatry ward.

Every Semester

College of Medicine M.D. Program

Medical Laboratory Science

MLS 5917 - Directed Research

College of Sciences

MLS 5937 - Special Topics

College of Sciences

MLS 6909 - Research Report

College of Sciences

MLS 6918 - Directed Research

College of Sciences

MLS 6938 - Special Topics

College of Sciences

MLS 6943 - Advanced Specialization in Immunohematology: Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Acceptance in the Specialist in Blood Banking program. Supervised practice in donor recruitment, phlebotomy, donor testing. Component preparation, HLA typings, transfusion service and management in the community blood center.
College of Medicine - Department of Molecular and Microbiology

MLS 6949 - Cooperative Education in Medical Laboratory Science

College of Sciences

Medical Research

MDR 8250 - Dermatology Research Elective

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 core clerkships.

The student will have opportunities to work on one of several ongoing clinical research projects. In addition, the student may develop their own project or join onto an ongoing project co-sponsored through another medical school, a patient support group or a medical society.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDR 8550 - Ophthalmology Research Elective

VAR Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Successful completion of M3 core clerkships.

Students will gain exposure to clinical trials, translational research and patient care in an ophthalmology subspecialty (retina) community-based practice.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDR 8570 - Orthopaedic Research Elective

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): Completion of the M2 year.

This course will highlight some of the challenges, approaches, and current research in orthopaedic medicine.

Occasional

College of Medicine M.D. Program

MDR 8802 - Neurodegenerative Disease: Research and Clinical Care

VAR Credit Hours

Class Hours: 3-6

Lab and Field Work Hours: 0

Contact Hours: 3-6

Prerequisite(s): Successful completion of M3 core clerkships.

Evaluation, clinical care, and clinical research in neurodegenerative disease with special emphasis on Alzheimer's disease and Parkinson's disease.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDR 8900 - Independent Study/Research at UCF

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Successful completion of M3 core clerkships.

Elective permits fourth year medical students to pursue, under the sponsorship of a UCF College of Medicine faculty member, areas of study/research that are not included among regular elective offerings.

Fall, Spring, Summer

College of Medicine - M.D. Program

Medicine Clinical Clerkships

MDC 7002 - Transition to Core Clerkships

16 Credit Hours

Class Hours: 8

Lab and Field Work Hours: 0

Contact Hours: 28.3/week

Prerequisite(s): Completion of the M2 year.

This 12-week rotation is intended to give M3 students an in-depth transition to the core clerkships, building clinical knowledge and skills that will be directly applicable in the clinical settings of each clerkship.

Odd Summer, Even Summer

College of Medicine M.D. Program

MDC 7180 - Core Clerkship in Obstetrics and Gynecology

8 Credit Hours

Class Hours: 8

Lab and Field Work Hours: 0
Contact Hours: 8

Prerequisite(s): Successful completion of M-2 term.
During this 6-week required clerkship, you will be introduced to the obstetric and gynecologic care of women in the outpatient and inpatient settings.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDC 7200 - Core Clerkship in Internal and Family Medicine

16 Credit Hours

Class Hours: 16
Lab and Field Work Hours: 0
Contact Hours: 16

Prerequisite(s): Successful completion of M-2 term.
Students will learn care of the adult patient in both inpatient and outpatient settings, with emphasis on diagnosis and treatment in common medical disorders.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDC 7400 - Core Clerkship in Pediatrics

8 Credit Hours

Class Hours: 8
Lab and Field Work Hours: 0
Contact Hours: 8

Prerequisite(s): Successful completion of M-2 term.
This course is a 6 week, required clerkship introducing the student to the general inpatient and outpatient clinical care of children.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDC 7600 - Core Clerkship in Surgery and Surgical Selectives

10 Credit Hours

Class Hours: 10
Lab and Field Work Hours: 0
Contact Hours: 40+/Week

Prerequisite(s): Completion of the M2 year. Corequisite(s): Must also be concurrently enrolled in an M3 elective course.

The surgical clerkship will expose the student to the diagnosis, workup, treatment, and follow up care of a broad spectrum of both common and not so common surgical diseases.

Every Semester

College of Medicine - M.D. Program

MDC 7710 - Core Clerkship in Emergency Medicine

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): Successful completion of M3 clerkships.

Four week core clerkship introduces the student to initial evaluation and workup as well as diagnostic ordering and treatment of patients presenting to the emergency department.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDC 7800 - Core Clerkship in Neurology

8 Credit Hours

Class Hours: 8

Lab and Field Work Hours: 0

Contact Hours: 8

Prerequisite(s): Successful completion of M-2 Term.

The neurology clerkship combines clinical neuroscience with neurologic history and examination to enable students to formulate differential diagnosis and treatment plans for common neurologic disorders.

Fall, Spring, Summer

College of Medicine - M.D. Program

MDC 7830 - Core Clerkship in Psychiatry

8 Credit Hours

Class Hours: 8

Lab and Field Work Hours: 0

Contact Hours: 8

Prerequisite(s): Successful completion of M-2 Term.

Students will participate in patient assessment and treatment, with an emphasis on the most common psychiatric disorders and recognition of cases needing specialty psychiatric referral.

Fall, Spring, Summer

College of Medicine - M.D. Program

Mental Health Services

MHS 5005 - Introduction to the Counseling Profession

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of Phase II of Education Professional Preparation or C.I.
Overview of the philosophy, organization, administration, and roles of counselors in various work settings.
Fall, Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 5917 - Directed Research

College of Community Innovation and Education

MHS 5937 - Special Topics

College of Community Innovation and Education

MHS 6020 - Mental Health Care Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 5005 or C.I.

Foundations of mental health counseling including organizational, administration, fiscal, and accountability structures.
Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6070 - Diagnosis and Treatment in Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 6400, MHR 6401.

Examines diagnosis in the assessment and treatment of mental disorders and the use of the DSM IV. Disorders reviewed with emphasis on symptoms and implications for treatment.
Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6220 - Individual Psychoeducational Testing I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

An overview of appraisal instruments for individual testing with emphasis on administration, scoring, and interpretation. Designed for practitioners interested in understanding individual assessment.
Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6221 - Individual Psychoeducational Testing II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): C.I.

Analysis of test theory and practice in administration, scoring, and interpretation of tests assessing achievement, visual-motor and cognitive ability, adaptive behavior, and self-concept.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6245 - Assessment and Treatment in Addictions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Application of assessment and treatment models in addictions, and the ethical application of services to support persons with addictions and chemical dependency and their families.

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6400 - Theories of Counseling and Personality

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 5005 or MHS 6020, EDF 6481, or C.I.

Major theories and approaches to counseling, correlating them with counterpart theories of personality and learning.

Fall, Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6401 - Techniques of Counseling

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): MHS 6400 or C.I.

The nature of counseling and its relationships to theoretical concepts.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6403 - Group and Family Play Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

MHS 6421. This practical course provides an overview of using different mediums of play therapy, including expressive arts, groups of children, and families for a systemic approach.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6407 - Counseling for Wellness

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Introduction to wellness concepts and topics in counseling including spirituality, health, stress research, positive assessment and others.

Odd Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6420 - Foundations of Multicultural Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 5005 or C.I.

Reviews knowledge and research pertaining to multicultural counseling and social justice issues, develops skills and personal awareness, and examines attributes that affect counseling diverse populations.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6421 - Foundations of Play Therapy and Expressive Arts

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course addresses the theories and application of principles of play and expressive arts in the counseling process with children.

Fall, Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6422 - Advanced Theories and Techniques of Play Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 6421.

This course provides an in-depth study of play therapy counseling theories, utilizing didactic and experiential mediums to enhance the students' development of play therapy skills.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6424 - Filial Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 6421.

This course teaches students how to include parents in the play therapy process through learning a specific model of filial in a 10-week group experience.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6430 - Family Counseling I

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): MHS 5005 or MHS 6020 or C.I.

Presentation of specific family counseling theories. An evolution and current state of the art.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6431 - Family Counseling II

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): MHS 6430, EDF 6481, or C.I.

Presentation of techniques to work with entrenched, paradoxical, and **fixed** family systems that pose problems for the family and the counselor.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6440 - Couples Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Overview of couple counseling theory and technique. In addition, the course covers special problems and stressors in the couple relationship.

Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6450 - Addictions Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examination within systematic, theoretical framework of the function that a substance, individual, and the environment play in use and abuse of illicit and licit substances.

Fall, Even Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6465 - Counseling Victims and Perpetrators of Family Violence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Examination of counseling interventions used with victims and perpetrators of family violence.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6466 - Foundations of Trauma and Crisis Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 9

Prerequisite(s): MHS 5005 or C.I.

An overview of the effects of crisis, disasters, and trauma on diverse individuals across the lifespan, focusing on trauma-specific counseling interventions and trauma-informed counseling strategies.

Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6470 - Human Sexuality and Relationships**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A basic course in understanding how human beings form intra- and interpersonal relationships and how sexuality develops.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6500 - Group Procedures and Theories in Counseling**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 6401.

This course is designed to give the student an understanding of the role of theories in group counseling as well as the many process applications of groups.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6510 - Advanced Group Counseling**3 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): MHS 6500 or C.I.

This course is designed to give students practical experience in leading groups. It is also intended to challenge students to explore professional and advanced issues in group counseling.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6600 - Consultation, Staffing, and Case Management

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

MHS 6500 or C.I. Understanding the counselor's role as consultant and staffing team member. Study of case management procedures.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6702 - Ethical and Legal Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Studies of ethical standards and legal issues in counseling and other human service professions.

Odd Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6803 - Practicum in Counselor Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 5005, MHS 6400, MHS 6401, MHS 6500, C.I.

Supervised counseling emphasizing competence in (1) individual counseling (2) working with groups (3) tests in educational-career-personal counseling. May be repeated for credit.

Odd Fall, Even Spring, Odd Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6830 - Counseling Internship

1-6 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1-6

Contact Hours: 1-6

Prerequisite(s): C.I.

Supervised placement in setting appropriate for program track. May be repeated for credit.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 6909 - Research Report

College of Community Innovation and Education

MHS 6918 - Directed Research

College of Community Innovation and Education

MHS 6938 - Special Topics

College of Community Innovation and Education

MHS 6949 - Cooperative Education in Mental Health Services

College of Community Innovation and Education

MHS 7311 - Scholarship and External Funding in Counselor Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into UCF's Counselor Education PhD program.

Emphasis on review processes and grant writing for State and Federal agencies as well as Private Foundations.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7340 - Advanced Career Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD in Education.

An advanced study of career development theories, occupational and educational information, approaches to career decision-making, lifestyle and leisure in the development of the whole person.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7406 - Advanced Theories in Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD program in Education--Counselor Education track.
Examination of counseling theories including historical foundations and emerging theories.
Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7497 - Advanced Multiculturalism in Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Admission to UCF's PhD in Education - Counselor Education Track program.

The course examines multiculturalism from the perspective of higher education and also within the context of counseling multicultural competencies.

Even Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7611 - Supervision in Counselor Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD in Education--Counselor Education track.

An examination of the process and various theories of supervision in counselor education.

Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7700 - Literature and Leadership in Counselor Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD program in Education--Counselor Education track.

Emphasis on current trends, leadership development, and consultation in Counselor Education.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7730 - Research Seminar in Counselor Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD in Education.

An examination of outcome research design, methodological issues and empirical basis of counseling.

Even Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7801 - Advanced Practicum in Counselor Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD program in Education--Counselor Education track.

This course provides advanced graduate students an opportunity to demonstrate and develop counseling skills.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7808 - Internship in Counseling Supervision

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD program in Education and MHS 7611.

Integration of theory and practice in counseling supervision.

Odd Fall, Even Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7840 - Internship in Counselor Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to PhD program in Education--Counselor Education track.

Examine and practice the various roles within a Counselor Education program under direct supervision.

Fall, Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

MHS 7919 - Research

College of Community Innovation and Education

MHS 7939 - Special Topics

College of Community Innovation and Education

MHS 7980 - Dissertation

College of Community Innovation and Education

Microbiology

MCB 5117C - Microbial Genomics

4 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): MCB 3020C.

This course introduces common concepts and tools in microbial genomics, which spans the fields of biology, bioinformatics, and phylogenetics. The course will provide hands-on experience applying computational tools. In addition, we will cover the basics of genomics, evolutionary theory, phylogenetics, bacterial recombination, metagenomics, bacterial genome-wide association studies, and data visualization.

Odd Fall

College of Medicine - Burnett School of Biomedical Sciences

MCB 5205 - Infectious Processes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MCB 3020C or C.I.

Discussion of current theories of the infectious process and the response of host cells and tissue to infection.

Fall

College of Medicine - Department of Molecular and Microbiology

MCB 5208 - Cellular Microbiology: Host-Pathogen Interactions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, PCB 3522.

Examination of the molecular details of host-pathogen interactions. Key areas of cell biology will be considered in relation to microbial pathogenesis.

Spring

College of Medicine - Department of Molecular and Microbiology

MCB 5209 - Microbial Stress Response

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examination of the molecular genetic mechanisms, bacterial and fungal pathogens used to adapt to changes in their environment.

Fall

College of Medicine - Department of Molecular and Microbiology

MCB 5225 - Molecular Biology of Disease

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An in-depth study of the molecular biological mechanism of diseases in experimental animal models and human populations.

Occasional

College of Medicine - Department of Molecular and Microbiology

MCB 5415 - Cellular Metabolism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Basic concepts of the mechanisms that define the functioning and regulation of prokaryotic and eukaryotic cell metabolism.

Fall

College of Medicine - Department of Molecular and Microbiology

MCB 5505 - Molecular Virology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An in-depth overview of the fundamental aspects and current concerns in modern virology including HIV, tumor viruses Prion disease, virus-host interaction, genome replication and pathogenesis.

Occasional

College of Medicine - Department of Molecular and Microbiology

MCB 5654 - Applied Microbiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Background or undergraduate coursework in microbiology and/or biotechnology.

Microbial biochemistry of industrial processes including economics, screening, scale-up, quality control, and applied genetics.

Occasional

College of Medicine - Burnett School of Biomedical Sciences

MCB 5722C - Methods in Biotechnology

4 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Prerequisite(s): Graduate standing.

A laboratory course that will train graduate students in fluorescence and luminescence-based assays used in biopharmaceutical industry for target validation.

Material and Supply Fee: \$70.00 *Occasional*

College of Medicine - Department of Molecular and Microbiology

MCB 5917 - Directed Research

College of Sciences

MCB 5932 - Current Topics in Molecular Biology

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Graduate standing or C.I.

Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit.

Occasional

College of Medicine - Department of Molecular and Microbiology

MCB 5937 - Special Topics

College of Sciences

MCB 6026 - Molecular Biology and Microbiology Capstone

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Molecular Biology and Microbiology M.S. program (non thesis track).

An in-depth current literature research report on a relevant subject will be developed by student and evaluated by faculty committee.

Occasional

College of Medicine - Department of Molecular and Microbiology

MCB 6226 - Molecular Diagnostics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

PCB 3522, PCB 4524 and MCB 5225 or C.I. A course in basic laboratory skills used in molecular genetic or clinical diagnostic laboratories for detecting genetic diseases.

Occasional

College of Medicine - Department of Molecular and Microbiology

MCB 6273 - Advanced Topics in Infectious Processes

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Graduate standing.

Data presentations from the primary literature and from the student's original research will focus on the molecular mechanisms of host-pathogen interactions.

Occasional

College of Medicine - Burnett School of Biomedical Sciences

MCB 6314 - Industrial Perspectives Seminar

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Biotechnology MS students.

Learning concepts of basic research and drug development in the pharmaceutical industry and technical presentation.

May be used in the degree program a maximum of 2 times.

Fall, Summer

College of Medicine - Department of Molecular and Microbiology

MCB 6417C - Microbial Metabolism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I. and Graduate Standing

Relationship between microbial metabolism and principal cellular activities, emphasizing transport, respiration, differentiation, and synthesis.

Occasional

College of Medicine - Burnett School of Biomedical Sciences

MCB 6723 - Practice of Biomolecular Science

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Graduate standing. Provides MS and PhD students with an introduction to the practice of Biomolecular Science.

Occasional

College of Medicine - Department of Molecular and Microbiology

MCB 6909 - Research Report

College of Sciences

MCB 6918 - Directed Research

College of Sciences

Music

MUS 5365 - Music and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing, or C.I.

The emergence of technology in music including MIDI, CD ROM, and the high-tech music classroom.

Occasional

College of Arts and Humanities - Department of Music

MUS 5677 - Health and Wellness for the Performing Artist

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Music MA or C.I.

Focus on performing artists' health and related topics.

Spring

College of Arts and Humanities - Department of Music

MUS 5917 - Directed Research

College of Arts and Humanities

MUS 5927 - Music Performance Workshop

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Music MA or C.I.

Individual coaching and study of the art of music performance, including mock auditions and performances.

Fall, Spring

College of Arts and Humanities - Department of Music

MUS 5937 - Special Topics

College of Arts and Humanities

MUS 6465 - Intensive Chamber Music

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Prerequisite(s): Admission to Music MA or C.I. and audition.

Concentrated rehearsal and coaching in a chamber music ensemble, as well as study of the corresponding genre.

Every Semester

College of Arts and Humanities - School of Performing Arts

MUS 6909 - Research Report

College of Arts and Humanities

MUS 6918 - Directed Research

College of Arts and Humanities

MUS 6938 - Special Topics

College of Arts and Humanities

MUS 6949 - Cooperative Education in Music

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the graduate program in Music or C.I.

Strategies to create a collaborative and inquiry-based learning environment in a range of K-12 music classes/ensembles.

Occasional

College of Arts and Humanities - School of Performing Arts

MUS 6960 - Comprehensive Exam

0 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 0

Contact Hours: 0

Prerequisite(s): Admission to Music MA or C.I.

Written exam used as a synthesis of knowledge for graduate students, normally taken in the last semester.

Every Semester

College of Arts and Humanities - School of Performing Arts

MUS 6975L - Graduate Project

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): Two semesters of graduate study in the appropriate area or C.I.

Planning, researching, and creating a written document in a non-performance area in music, designed to serve as a

cumulative synthesis of learning.
Fall, Spring

College of Arts and Humanities - Department of Music

MUS 6976L - Graduate Recital

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): Two semesters of graduate level study in the appropriate area or C.I.

Public performance in an area such as instrumental/vocal performance, conducting or composition, designed as a capstone experience.

Fall, Spring

College of Arts and Humanities - Department of Music

Music Education

MUE 5348C - K-12 Music Methods

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Graduate standing in Music Education or C.I.

Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for general, choral, and instrumental music education.

Spring

College of Arts and Humanities - Department of Music

MUE 5917 - Directed Research

College of Arts and Humanities

MUE 5921 - Music Education Workshop

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Graduate standing or C.I.

Variable topics in Music Education to offer hands-on instruction in a workshop format. May be used in the degree program a maximum of 4 times only when course content is different.

Summer

College of Arts and Humanities - Department of Music

MUE 5937 - Special Topics

College of Arts and Humanities

MUE 6080 - Foundations of Music Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in music.

Study of significant historical events that have shaped music education along with important research and philosophical writings. Designed for online delivery.

Odd Fall

College of Arts and Humanities - Department of Music

MUE 6175 - Teaching Music Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in M.A. or M.Ed. in Music Education or C.I.

Techniques and skills for planning, administering and directing performing music organizations. Examination of historical, sociological and philosophical foundations of music education.

Summer

College of Arts and Humanities - Department of Music

MUE 6746 - Assessment and Evaluation in Music Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Music learning theory and assessment in the K-12 music classroom.

Summer

College of Arts and Humanities - School of Performing Arts

MUE 6785 - Introduction to Research in Music Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Basic concepts of research in Music Education. Students will read, analyze, and discuss current research literature, and write research reports.

Occasional

College of Arts and Humanities - School of Performing Arts

MUE 6909 - Research Report

College of Community Innovation and Education

MUE 6918 - Directed Research

College of Community Innovation and Education

MUE 6936 - Current Topics in Music Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Study and application of current topics and issues in music education. May be used in the degree program a maximum of 2 times only when course content is different.

Summer

College of Arts and Humanities - School of Performing Arts

MUE 6938 - Special Topics

College of Community Innovation and Education

MUE 6945 - Practicum in Music Education**3 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 14

Contact Hours: 14

Prerequisite(s): Basic Teacher Certificate.

MUE 6349 , MUE 6610 and MUE 6630 or C.I. Field experience in teaching music. May be repeated for credit.

College of Arts and Humanities - Department of Music

Music Ensembles

MUN 5125 - Concert Band

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Open to all graduate students by audition.

Study and performance of music for large ensembles. May be used in the degree program a maximum of 4 times.

Material and Supply Fee: \$20.00 *Odd Fall*

College of Arts and Humanities - Department of Music

MUN 5145 - Wind Ensemble

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 4

Contact Hours: 4

Prerequisite(s): Open to all graduate students by audition.

Study and performance of music for wind ensemble and band. May be used in the degree program a maximum of 4 times.

Material and Supply Fee: \$20.00 *Odd Fall*

College of Arts and Humanities - Department of Music

MUN 5215 - Symphony Orchestra

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 5

Contact Hours: 5

Prerequisite(s): Open to all graduate students by audition.

Rehearsal and performance of works from the symphonic repertoire. May be used in the degree program a maximum of 4 times.

Material and Supply Fee: \$20.00 *Odd Fall*

College of Arts and Humanities - Department of Music

MUN 5325 - Women's Chorus

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Open to all graduate students by audition.

Study and performance of choral music for women's voices. May be used in the degree program a maximum of 4 times.

Material and Supply Fee: \$20.00 *Odd Fall*

College of Arts and Humanities - Department of Music

MUN 5368L - Graduate Chamber Singers

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate standing in Music Education and C.I.

A select, mixed choir that explores music appropriate to a small, advanced ensemble, and performs in the Orlando area each semester. May be used in the degree program a maximum of 5 times.

Material and Supply Fee: \$20.00 *Fall, Spring*

College of Arts and Humanities - Department of Music

MUN 5385L - Graduate University Chorus

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate standing in Music Education and C.I.

Study and performance of large ensemble music. May be used in the degree program a maximum of 5 times.

Material and Supply Fee: \$20.00

College of Arts and Humanities - Department of Music

MUN 5445 - Percussion Ensemble

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Open to all graduate students by audition.

Study and performance of music for small percussion ensembles. May be used in the degree program a maximum of 4 times.

Material and Supply Fee: \$35.00 *Odd Fall*

College of Arts and Humanities - Department of Music

MUN 5465L - Graduate Chamber Music

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Graduate standing in Music Education and C.I.

The study and performance of vocal and/or instrumental chamber ensemble literature. Flexible instrumentation to meet student needs. May be used in the degree program a maximum of 5 times.
Material and Supply Fee: \$20.00

College of Arts and Humanities - Department of Music

MUN 5478L - Early Music Ensemble

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Graduate standing in Music Education and C.I.

Graduate ensemble experience with instruments and repertoire of the Medieval, Renaissance, and Baroque periods.

May be used in the degree program a maximum of 5 times.

Material and Supply Fee: \$5.00

College of Arts and Humanities - School of Performing Arts

MUN 5715L - Jazz Ensemble

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 4

Contact Hours: 4

Prerequisite(s): Audition, graduate or senior standing, and C.I.

Study and performance of jazz big band music. May be used in the degree program a maximum of 4 times only when course content is different.

Material and Supply Fee: \$20.00 *Fall, Spring*

College of Arts and Humanities - Department of Music

MUN 5716L - Jazz Chamber Group

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Audition, graduate standing or senior standing, and C.I.

Study and performance of jazz small group music. May be used in the degree program a maximum of 4 times.

Material and Supply Fee: \$20.00 *Fall, Spring*

College of Arts and Humanities - Department of Music

MUN 5917 - Directed Research

College of Arts and Humanities

MUN 5937 - Special Topics

College of Arts and Humanities

MUN 5937L - Special Topics

College of Arts and Humanities

MUN 6909 - Research Report

College of Arts and Humanities

MUN 6918 - Directed Research

College of Arts and Humanities

MUN 6938 - Special Topics

College of Arts and Humanities

Music Literature

MUL 5436 - Guitar Literature and Pedagogy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Survey of significant repertoire and pedagogy for classical guitar.

Odd Spring

College of Arts and Humanities - School of Performing Arts

MUL 5439 - String Literature and Pedagogy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Study of string literature from the Baroque period to the 20th century, along with prominent pedagogical principles.

Odd Fall

College of Arts and Humanities - Department of Music

MUL 5447 - Woodwind Literature and Pedagogy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Major works written for woodwind instruments, as well as the study of the basic concepts and techniques fundamental to teaching woodwind instruments.

Odd Spring

College of Arts and Humanities - Department of Music

MUL 5448 - Brass Literature and Pedagogy**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Significant brass repertoire, study materials and a review of teaching techniques for artistic brass performance.

Even Fall

College of Arts and Humanities - Department of Music

MUL 5555 - Band Literature**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Survey of materials for use in the public school band classroom, including beginning band methods, technique books, and musical selections appropriate for concert performance.

Occasional

College of Arts and Humanities - Department of Music

MUL 5645 - Choral Literature**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Survey of choral music from its beginnings to the present with consideration of historical perspective; genres, styles and performance practice; major composers and representative works.

Occasional

College of Arts and Humanities - School of Performing Arts

MUL 5917 - Directed Research

College of Arts and Humanities

MUL 5937 - Special Topics

College of Arts and Humanities

Music: Composition

MUC 5112 - Composition V

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate standing in music education or C.I.

Advanced music composition at the graduate level. May be used in the degree program a maximum of 4 times.

College of Arts and Humanities - Department of Music

MUC 5917 - Directed Research

College of Arts and Humanities

MUC 5937 - Special Topics

College of Arts and Humanities

MUC 6251 - Composition VI

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission into MA in Music degree program and audition.

Intensive advanced study in musical composition. May be used in the degree program a maximum of 4 times.

Odd Fall

College of Arts and Humanities - Department of Music

MUC 6938 - Special Topics

College of Arts and Humanities

Music: Conducting

MUG 5917 - Directed Research

College of Arts and Humanities

MUG 5937 - Special Topics

College of Arts and Humanities

MUG 6106 - Advanced Conducting I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in MEd or MA in Music Education or C.I.

Basic conducting practices including the application of theory and personal musicianship skills.

Occasional

College of Arts and Humanities - Department of Music

MUG 6306 - Conducting and Literature

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): Admission to Music MA and audition.

Private lessons in conducting, combined with small group study of ensemble literature from different time periods.

Every Semester

College of Arts and Humanities - Department of Music

MUG 6938 - Special Topics

College of Arts and Humanities

Music: History/Musicology

MUH 5326 - Medieval and Renaissance Music

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in music education or C.I.

Music and culture of Western Europe in the era c. 450-1600.

Occasional

College of Arts and Humanities - School of Performing Arts

MUH 5345 - Music of the Baroque

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in music or music education or C.I.

Baroque music, 1600-1750. Investigates Baroque musical styles and composers within their diverse historical, musical, and cultural contexts.

Even Spring

College of Arts and Humanities - Department of Music

MUH 5356 - Eighteenth-Century Music

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in music education or C.I.

Music and culture of Western Europe in the era c. 1700-1800.

Occasional

College of Arts and Humanities - Department of Music

MUH 5365 - Music of the 19th Century

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Western Art Music of the 19th Century.

Odd Fall

College of Arts and Humanities - Department of Music

MUH 5375 - Music Since 1900

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music Education or C.I.

Music and culture of Western and American art Music from c. 1900 to the present.
College of Arts and Humanities - Department of Music

MUH 5665 - Development of Opera

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

An in-depth examination of Western European opera, from its origins around 1600 until the present day.

Even Spring

College of Arts and Humanities - Department of Music

MUH 5816 - Jazz Styles and Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Advanced study of historical style periods and master artists in jazz music.

Odd Fall

College of Arts and Humanities - Department of Music

MUH 5917 - Directed Research

College of Arts and Humanities

MUH 5937 - Special Topics

College of Arts and Humanities

MUH 6916 - Music Bibliography and Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into MA in Music degree program or C.I.

Materials and techniques used in scholarly research in music.

Odd Fall

College of Arts and Humanities - Department of Music

MUH 6935 - Music History Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MUH 6916 or C.I.

Seminar on selected topics in music history and literature. May be used in the degree program a maximum of 3 times.

Odd Fall

College of Arts and Humanities - Department of Music

MUH 6938 - Special Topics

College of Arts and Humanities

Music: Opera/Musical Theatre**MUO 5505L - Graduate Opera Workshop****1 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): C.I. and audition.

Study of audition techniques, operatic roles and repertoire, and characterization through performance. May be used in the degree program a maximum of 5 times.

Material and Supply Fee: \$70.00

College of Arts and Humanities - Department of Music

MUO 5917 - Directed Research

College of Arts and Humanities

MUO 5937 - Special Topics

College of Arts and Humanities

MUO 5937L - Special Topics

College of Arts and Humanities

Music: Theory**MUT 5316 - Orchestration****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Study of the various instruments commonly found in orchestras and wind ensembles and how to write for these instruments in combination.

Odd Spring

College of Arts and Humanities - Department of Music

MUT 5445 - Counterpoint

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Principles of counterpoint and the study of contrapuntal styles in Western music from the 16th century to the present day.

Even Spring

College of Arts and Humanities - Department of Music

MUT 5620 - Analysis of Twentieth Century Music

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Music or C.I.

Analysis of music in a selection of the different styles practiced in the 20th century, with an emphasis on Western art music.

Fall

College of Arts and Humanities - Department of Music

MUT 5917 - Directed Research

College of Arts and Humanities

MUT 5936 - Music Theory Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in music education or C.I.

One or more issues of importance in music theory with emphasis on recent scholarly literature and debates. May be

used in the degree program a maximum of 4 times.
College of Arts and Humanities - School of Performing Arts

MUT 5937 - Special Topics

College of Arts and Humanities

MUT 6621 - Techniques and Concepts of Musical Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into MA in Music or C.I.

Advanced techniques in musical analysis.

Odd Fall

College of Arts and Humanities - Department of Music

MUT 6909 - Research Report

College of Arts and Humanities

MUT 6918 - Directed Research

College of Arts and Humanities

MUT 6938 - Special Topics

College of Arts and Humanities

Nursing: Graduate

NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Corequisite(s): NGR 5003L. Prerequisite(s) or Corequisite(s): NGR 5141

Admission to the M.S. in Nursing or Doctor of Nursing Practice program tracks or C.I. Concepts and skills of advanced health assessment over the lifespan. Application of the diagnostic reasoning process through differential diagnoses.

May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Corequisite(s): NGR 5003. Admission to the M.S. in Nursing or Doctor of Nursing Practice tracks or C.I.

Prerequisite(s) or Corequisite(s): NGR 5141.

Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan. May be used in the degree program a maximum of two times.

Material and Supply Fee: \$45.00 *Fall, Spring, Summer*

College of Nursing - Department of Nursing

NGR 5090 - Urgent Care for the Advanced Practice Nurse**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings.

Occasional

College of Nursing - Department of Nursing

NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Nursing or Doctor of Nursing Practice program or C.I.

Critical examination of the physiological and pathophysiological mechanisms affecting individuals. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 5190 - Core Clinical Concepts for Nurse Educators**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Graduate Nursing Program or C.I.; NGR 5141 or equivalent. Integrate concepts of Pharmacology and Health Assessment. Provides the foundation for Advanced Nursing Practice within the Nurse Educator role.

Fall, Spring

College of Nursing - Department of Nursing

NGR 5638 - Health Promotion

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M. S. in Nursing or Doctor of Nursing Practice or C.I.

Exploration and analysis of concepts, theories, research evidence, clinical assessment and interventions for health promotion and wellness. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 5660 - Health Disparities: Issues and Strategies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Explores disparities in access, utilization, services, outcomes, and status for different U.S. populations: data, research, programmatic issues, and strategies to close the gaps. May be used in the degree program a maximum of 2 times.

Occasional

College of Nursing - Department of Nursing

NGR 5690 - Interdisciplinary Care at End-of-Life

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or C.I.

Examination of interdisciplinary roles and strategies for enabling patients, families; and caregivers to approach end-of-life free from avoidable distress and suffering. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 5720 - Organizational Dynamics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Baccalaureate degree in Nursing or C.I.

Analysis of organizational theories related to health care organizations and the use of leadership, communication and power to influence health care delivery and policy. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 5800 - Theory for Advanced Practice Nursing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Baccalaureate degree in Nursing or C.I.

Conceptual and theoretical bases of nursing practice and research with emphasis on scholarly writing and critique. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Nursing - Department of Nursing

NGR 5871 - Health Care Informatics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Baccalaureate in health related field or C.I.

Use of information systems, clinical data management, communication strategies, and decision-making models. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 5884 - Legal and Professional Behavior in Advanced Practice Nursing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and admission to the M.S. in Nursing or Doctor of Nursing Practice program.

Examination of legal, ethical, cultural, and political issues related to professional advanced practice nursing. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 5894C - International Perspectives of Global Health

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation's health care systems.

Occasional

College of Nursing - Department of Nursing

NGR 5917 - Directed Research

College of Nursing

NGR 5937 - Special Topics

College of Nursing

NGR 6063L - Advanced Skills for the Management of Illness and Injuries

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 2

Prerequisite(s): Admission to the Doctor of Nursing Practice program or a Nurse Practitioner certificate track.
Development of theoretical, and clinical skills for the evaluation, diagnosis, and management of illnesses and injuries.
Material and Supply Fee: \$45.00 *Fall, Spring*

College of Nursing - Department of Nursing

NGR 6105 - Management of Symptoms and Outcomes of Disease

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s) or Corequisite(s): NGR 5141 or C.I.
Focused examination of the concepts, theories and research evidence that provide the basis for assessment and management of the patient experiences related to disease outcomes. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 6172 - Pharmacology for Advanced Nursing Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 5141 or C.I.

Comprehensive study of medications used in the promotion and maintenance of health across the lifespan. Examination of the implications for advanced nursing practice. May be used in the degree program a maximum of 2 times.
Fall, Spring

College of Nursing - Department of Nursing

NGR 6175 - Critical Care Pharmacology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

NGR 6172 - Pharmacology for Advanced Nursing Practice. Provides a general overview of the pharmacologic agents unique to the care of the critically ill and medically-complex unstable adult-gerontology client.

Fall, Spring, Summer

College of Nursing - All

NGR 6186 - Genetics and Genomics in Advanced Nursing Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Baccalaureate degree in Nursing, NGR 5141 or approval of graduate coordinator or C.I.

Application of genetics and genomic principles to advanced clinical nursing practice.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 6200 - Gender Related Primary Care

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Corequisite(s): 6342L. Prerequisite(s) or Corequisite(s): NGR 6172.

Admission to the Doctor of Nursing Practice program, Family Nurse Practitioner or Adult/Gerontology Nurse Practitioner track; completion of NGR 5003; NGR 5003L; NGR 5141. Development of theoretical skills for evaluation, diagnosis, and management of the gender related health needs of men and women. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 6201 - Adult I Primary Care

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the DNP program FNP or ANP track; completion of NGR 5003, NGR 5003L, NGR 5141, or C.I Corequisite(s): Adult I Primary Care Clinical, NGR 6172, or C.I.

Development of theoretical skills for evaluation, diagnosis, and management of the primary care health needs of adults and communities. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6201L - Adult I Primary Care Clinical

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Corequisite(s): NGR 6201.

Application of theory and skills for evaluation, diagnosis and management of the primary care health needs of adults and communities. Graded S/U. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6202 - Adult II Primary Care

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 6201, NGR 6201L Corequisite(s): NGR 6202L.

Development of theoretical foundation for the evaluation, diagnosis, and management of the complex health needs of adults. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 6202L - Adult II Primary Care Clinical

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 9

Contact Hours: 0

Prerequisite(s): Admission to the DNP program and completion of NGR 6201 and NGR 6201L or NGR 6240L.

Development of theoretical and clinical skills for evaluation, diagnosis, and management of the complex and long-term needs of adults.

Odd Fall, Even Fall

College of Nursing - Department of Nursing

NGR 6210 - Adult-Gerontology Acute Care Nurse Practitioner I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): NGR 6230L or C.I.

NGR 6172, NGR 5003/NGR 5003L. Introduce graduate nursing students to the foundational concepts in acute and critical care patient management.

Fall, Spring, Summer

College of Nursing - All

NGR 6211 - Adult-Gerontology Acute Care Nurse Practitioner II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

NGR 6210, NGR 6230L; CR: NGR 6211L. Complex care of the stable and unstable adult-gerontology patient with complex cardiovascular, pulmonary, hematological, renal, and commonly occurring health care problems.

Fall

College of Nursing - All

NGR 6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Corequisite(s): NGR 6211.

NGR 6210, NGR 6230L. Complex clinical care of the stable and unstable adult-gerontology patient with complex cardiovascular, pulmonary, hematological, renal, and commonly occurring health care problems.

Fall, Spring, Summer

College of Nursing - All

NGR 6212 - Adult-Gerontology Acute Care Nurse Practitioner III

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): NGR 6212L.

NGR 6211, NGR 6211L. Complex care of the stable and unstable adult-gerontology patient with complex endocrine, neurologic, gastrointestinal and commonly occurring health care problems in acutely and critically ill young, middle and older adults.

Fall, Spring, Summer

College of Nursing - All

NGR 6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Corequisite(s): NGR 6212.

NGR 6211, NGR 6211L. Complex clinical care of the stable and unstable adult-gerontology patient with common and complex occurring health care problems in acutely and critically ill young, middle and older adults.

Fall, Spring, Summer

College of Nursing - All

NGR 6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

NGR 6212, NGR 6212L. Final clinical course covering care of the stable and unstable adult-gerontology patient with common and complex occurring health care problems in acutely and critically ill young, middle and older adults.

Fall, Spring, Summer

College of Nursing - All

NGR 6230L - Diagnostics and Skills for the Critically Ill

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Corequisite(s): NGR 6210.

Introduce graduate nursing students to the skills and procedures used in the management of critically ill patients.

Fall, Spring, Summer

College of Nursing - All

NGR 6240 - Adult I for APNs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Nursing Practice program, Nurse Practitioner certificate, Family Nurse

Practitioner or Adult Gerontology Nurse Practitioner tracks, NGR 5003, NGR 5003L. Corequisite(s): NGR 6240L.
Prerequisite(s) or Corequisite(s): NGR 6172
Development of theoretical skills for evaluation, diagnosis, and management of health needs of adults and communities. May be used in the degree program a maximum of 2 times.
Spring

College of Nursing - Department of Nursing

NGR 6240L - Adult I Clinical for APNs

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Nursing program, Nursing certificate, Adult Nurse Practitioner or Family Nurse Practitioner track. Corequisite(s): NGR 6240.
Application of skills for evaluation, diagnosis, and management of health needs of adults and communities.
Fall

College of Nursing - Department of Nursing

NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Nursing, Doctor of Nursing Practice, Clinical Nurse Specialist or Nurse Practitioner certificate.
Can be started concurrently with final clinical course in program of study. (Varies with plan of study.). Supervised advanced clinical practice in the roles of the nurse practitioner in an individualized preceptorship. May be used in the degree program a maximum of 2 times.
Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 6249 - Management of Common Health Problems of the Adult Patient

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 5141; NGR 5003 and NGR 5003L Prerequisite(s) or Corequisite(s): NGR 6801 or C.I.
Analysis of current practices in management of adult patients. Incorporates diagnostic reasoning, nursing management, and evidence-based practices. May be used in the degree program a maximum of 2 times.
Fall, Spring

College of Nursing - Department of Nursing

NGR 6263 - Gerontologic Care for APNs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Nursing Practice program, Adult/Gerontology Clinical Nurse Specialist, Family Nurse Practitioner or Adult/Gerontology Nurse Practitioner track; and completion of NGR 5003, NGR 5003L, NGR 6201, and NGR 6240L, or C.I. Corequisite(s): NGR 6263L, or NGR 6264L. Prerequisite(s) or Corequisite(s): NGR 6172.

Development of the theoretical skills for evaluation, diagnosis and management of the health needs of older adults and communities. .

Odd Summer, Even Summer

College of Nursing - Department of Nursing Practice

NGR 6263L - Gerontologic Care Clinical for NPs

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 0

Prerequisite(s): Admission to the Doctor of Nursing Practice program, Adult/Gerontology Clinical Nurse Specialist, Family Nurse Practitioner or Adult/Gerontology Nurse Practitioner track; and completion of NGR 5003, NGR 5003L, NGR 6201, and NGR 6240L, or C.I. Corequisite(s): NGR 6263.

Development of clinical skills for evaluation, diagnosis, and management of the gerontologic health care needs common normal and abnormal variations in physical, cognitive, and psychologic states.

Odd Summer, Even Summer

College of Nursing - Department of Nursing

NGR 6264L - Gerontologic Care Clinical for CNS

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): NGR 6782 and NGR 6782L or C.I. Corequisite(s): 6263

Development of Clinical Nurse Specialist skills in management of an elderly population with acute and chronic conditions. Graded S/U. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 6265 - Adult/Gerontology CNS I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 5141; NGR 5003L; NGR 6874.

Adult/Gerontology Clinical Nurse Specialist foundation. Role/scope of CNS; direct care/coaching focus. Health promotion and disease prevention across the adult lifespan. May be used in the degree program a maximum of 2 times.
Spring

College of Nursing - Department of Nursing

NGR 6265L - Adult/Gerontology CNS I Clinical

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Corequisite(s): NGR 6265.

Introduction to Adult/Gerontology CNS role; emphasis on direct care, coaching, systems leadership for health promotion and managing common problems. Graded S/U. May be used in the degree program a maximum of 2 times.
Spring

College of Nursing - Department of Nursing

NGR 6266 - Adult/Gerontology CNS II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 6265; NGR 6265L; NGR 6172; NGR 6801; NGR 5720.

Continuation of Adult/Gerontology CNS I. Management of acute and/or complex problems; focus on research and ethical decision making. May be used in the degree program a maximum of 2 times.
Fall

College of Nursing - Department of Nursing

NGR 6266L - Adult/Gerontology CNS II Clinical

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): NGR 6265; NGR 6265L Corequisite(s): NGR 6266.

Continued development of Adult/Gerontology CNS role; emphasis on research, ethical decision making, and management of acute and chronic health problems.
Fall

College of Nursing - Department of Nursing

NGR 6267 - Adult/Gerontology CNS III

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 6266; NGR 6266L.

Continuation of Adult/Gerontology CNS II. Management of acute and/or complex problems. Focus on collaboration, systems leadership, and consultation. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6267L - Adult/Gerontology CNS III Clinical**3 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): NGR 6266; NGR 6266L Corequisite(s): NGR 6267.

Continued development of adult/gerontology Clinical Nurse Specialist role; emphasis on collaboration, systems leadership, consultation in management of acute and chronic problems.

Spring

College of Nursing - Department of Nursing

NGR 6305 - Pediatric Primary Care**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Nursing Practice program, Family Nurse Practitioner track; completion of NGR 5003, NGR 5003L, or C.I. Corequisite(s): 6305L. Prerequisite(s) or Corequisite(s): NGR 6172.

Development of theoretical skills for evaluation, diagnosis, and management of the primary care needs of children and their families, including common normal and abnormal variations in physical, cognitive, and psychological development. May be used in the degree program a maximum of 2 times.

Spring, Summer

College of Nursing - Department of Nursing

NGR 6305L - Pediatric Primary Care Clinical**2 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Corequisite(s): NGR 6305.

Development of clinical skills for evaluation, diagnosis, and management of the primary care needs of children and their families, including common normal and abnormal variations in physical, cognitive, and psychological

development. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6331L - Pediatrics I Clinical for APNs

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Admission to MSN program or nursing certificate, FNP or PNP track. Corequisite(s): NGR 6331. Evaluation diagnosis and management of the primary care needs of children and their families.

Spring

College of Nursing - Department of Nursing

NGR 6332L - Pediatrics II Clinical for APNs

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Nursing program, Nursing certificate, Pediatric Nurse Practitioner track, NGR 6332.

Evaluation, diagnosis, and management of the complex health needs of children and their families.

Fall

College of Nursing - Department of Nursing

NGR 6334 - Women's Health for APNs

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to M.S. in Nursing program, Nursing certificate or track, NGR 5003, NGR 5003L, NGR 5141, NGR 6172. Corequisite(s): NGR 6342L (for Adult Nurse Practitioner and Family Nurse Practitioner tracks). Development of theoretical skills for evaluation, diagnosis, and management of women.

Summer

College of Nursing - Department of Nursing

NGR 6335L - Focused Pediatrics Clinical for APNs

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Nursing program, Nursing certificate, Pediatric Nurse Practitioner track, NGR 6331.

Application of theory and skills for the in-depth developmental and physical assessment of children and their families.
Summer

College of Nursing - Department of Nursing

NGR 6342L - Women's Health for APNs Clinical

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): Admission to M.S. in Nursing program, Nursing certificate, Adult Nurse Practitioner or Family Nurse Practitioner track. Corequisite(s): NGR 6334.

Application of skills for evaluation, diagnosis, and management of the health needs of women. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 6351 - Nursing Care of Children and Childbearing Women

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 5141; NGR 5003 and NGR 5003L Corequisite(s): NGR 6801 or C.I.

Analysis of nursing care of children and childbearing women. Incorporates diagnostic reasoning, nursing management, and evidence-based practices. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Nursing - Department of Nursing

NGR 6627 - Management of Common Health Problems of Communities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 5141; NGR 5003 and NGR 5003L Corequisite(s): NGR 6801 or C.I.

Analysis of current practices in management of communities. Incorporates diagnostic reasoning, nursing management, and evidence-based practices. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Nursing - Department of Nursing

NGR 6713 - Curriculum Development in Nursing Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admissions to M.S. in Nursing program or certificate of Nursing Education, or C.I.

Analysis of external and internal influences affecting curriculum development for the nursing education. Examination of societal factors impacting nursing education. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 6714 - Clinical Teaching Strategies for Nursing**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 6791 or C.I.

Synthesis of research-based literature and best practice in the development, implementation and evaluation of clinical education for nursing students. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 6715 - Application of Instructional Technology for Nursing Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 6791 or C.I.

Analysis of effective teaching and learning strategies with emphasis on developing techniques for teaching using instructional technology in nursing education. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6717 - Introduction to Healthcare Simulation**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to M.S. in Nursing or Nursing Certificate or C.I. Course applies pedagogical principles and knowledge of a range of technologies to developing healthcare simulation programs. Includes principles of educational evaluation.

Fall, Spring, Summer

College of Nursing - All

NGR 6718 - Evaluation in Nursing Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 6713; NGR 6791 or C.I.

Analysis of the process of systematic evaluation of learning outcomes at individual, class and program levels. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 6722 - Financial Management and Resource Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.S. in Nursing or Doctor of Nursing Practice program or C.I.

Overview of health care financing and economics at the macro and micro level and their influence on health care delivery, resource development and health policy. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 6723 - Nursing Leadership and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Science in Nursing, Doctor of Nursing Practice, Nursing Ph.D. program, or C.I.

Analysis, synthesis and application of health care leadership principles including health and patient care, delivery systems, personnel management and finance, ethical, legal and regulatory requirements.

Fall, Spring

College of Nursing - Department of Nursing

NGR 6723L - Nursing Leadership Role Specialization Practicum

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): NGR 6723.

Preceptor supervised experience with a nurse leader. Experience will focus on the analysis, synthesis and application of the principles related to leadership in the health care setting, including health care delivery systems, patient care

delivery systems, staffing, personnel management, finance and ethical, legal and regulatory requirements.
Fall, Spring

College of Nursing - Department of Nursing

NGR 6758L - Clinical Nurse Specialist Advanced Practicum

4 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 4

Contact Hours: 4

Prerequisite(s): NGR 6781.

Supervised advanced clinical practice in the clinical nurse specialist role. Integration of practice, education, consultation, research and administrative roles.

Spring

College of Nursing - Department of Nursing

NGR 6771L - Healthcare Simulation Practicum

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

NGR 6978 or C.I. Optional practicum course to prepare for roles in nursing and healthcare simulation design and evaluation.

Fall, Spring, Summer

College of Nursing - All

NGR 6772L - Nurse Leadership and Management Internship

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): NGR 5720, NGR 5871, NGR 6722, NGR 6723, and NGR 6723L.

Percepted advanced leadership and management experience focusing on analysis, synthesis and application of principles related to nurse lead administration of health care systems.

Fall, Spring

College of Nursing - Department of Nursing

NGR 6773L - CNL Residency

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): NGR 6777L, NGR 6775L, NGR 6776L and NGR 6813.

Intensive clinical immersion in role of the clinical nurse leader. Graded S/U. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6775L - CNL Resources and Outcomes

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Corequisite(s): NGR 6105 and NGR 6722.

Participation in clinical activities related to symptom and disease management and healthcare finance and resource utilization to improve patient outcomes.

Summer

College of Nursing - Department of Nursing

NGR 6776L - CNL Advocacy and Education

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Corequisite(s): NGR 5720.

Participation in clinical activities related to organizational assessment, patient/staff education and advocacy, and professional development.

Fall

College of Nursing - Department of Nursing

NGR 6777L - CNL Quality and Safety

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Corequisite(s): NGR 6874.

Introduction to role of CNL in clinical setting; participation in clinical activities related to quality improvement and patient safety. Graded S/U. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6783 - Adult CNS II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 6172, NGR 6782, NGR 6782L, NGR 6263, NGR 6264L; C.I.

Continuation of Adult Clinical Nurse Specialist I. Management of acute and/or complex patients. Clinical Nurse Specialist competencies of collaboration, consultation, systems leadership, and research. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 6783L - Adult CNS II Clinical**2 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): NGR 6782 and NGR 6782L; NGR 6263; NGR 6264L Corequisite(s): NGR 6783.

Continued development of the Clinical Nurse Specialist role. Emphasis on direct care, collaboration, consultation, systems leadership, and research. Graded S/U. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 6791 - Teaching Strategies for Nurse Educators**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate program in the College of Nursing or the graduate certificate in Nursing and Health Professional Education or C.I.

Application of evidenced-based practice guidelines to the processes of teaching and learning. Analysis of external and internal influences affecting the educational process of health professionals. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 6794 - Organizational Leadership and Operations in Healthcare Simulation**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

NGR 6717 or C.I. Prepares students with the knowledge and skills necessary to manage a simulation program in a healthcare environment.

Spring

College of Nursing - All

NGR 6801 - Research Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 5800.

Identify and critically appraise existing scientific evidence, and apply evidentiary findings to nursing practice, population or setting. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Nursing - Department of Nursing

NGR 6813 - Evidence Based Nursing Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 5800 and NGR 6801; must be in last 12 hours of M.S. in Nursing program or in Doctor of Nursing Practice plan of study.

Apply research, theory and other evidence to advanced practice nursing. Processes for implementation, evaluation and synthesis of evidence-based nursing practice are included. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 6871 - Augmented, Virtual, and Mixed Realities in Healthcare

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Interdisciplinary examination of virtual, augmented, and mixed reality use in healthcare.

Occasional

College of Nursing - Department of Nursing Practice

NGR 6874 - Nursing Environment Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the M.S. in Nursing or Doctor of Nursing Practice track or C.I. In-depth analysis of the use of informatics, quality management, risk reduction and patient safety concepts and tools to promote improved patient outcomes for nursing care. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 6886 - Professional Ethics and Rational Decision Making in Medicine and Advanced Nursing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An analysis of ethical theories that guide clinical, policy, and research decision-making in medicine and advanced nursing in a diverse society. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 6899 - The Practice of Global Health Care

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Graduate Nursing Program or C.I. An overview of health care from a global perspective, synthesizing the theory and practice of global health.

Fall, Spring, Summer

College of Nursing - All

NGR 6909 - Research Report

College of Nursing

NGR 6918 - Directed Research

College of Nursing

NGR 6938 - Special Topics

College of Nursing

NGR 6941 - Advanced Practice Practicum

Variable Credit Hours

Class Hours: 1-7

Contact Hours: 1-7

Prerequisite(s): Admission to M.S. in Nursing, Doctor of Nursing Practice, Clinical Nurse Specialist or Nurse Practitioner certificate.

Can be started concurrently with final clinical course in program of study. (Varies with plan of study.). Supervised advanced clinical practice in the role of nurse practitioner in an individualized preceptorship.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 6942C - Internship in Nursing Education**4 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): NGR 6351 or NGR 6627 or NGR 6249; and NGR 6945L.

Application of principles of education through guided practice in classroom and clinical settings and assimilation of the nurse educator role. Graded S/U. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 6945L - Clinical Specialty Practicum**1 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): NGR 5141, NGR 5190, or C.I.

Supervised clinical practice activities related to nursing care of common health problems of specific patient population. Graded S/U. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Nursing - Department of Nursing

NGR 6978 - Healthcare Simulation Capstone Project**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

NGR 6794 or C.I. Preparation and testing of a healthcare simulation project using a multi-disciplinary team approach.

Fall, Summer

College of Nursing - All

NGR 7065 - Advanced Clinical Management for Advanced Practice Nursing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): NGR 7748L.

Advanced diagnostic reasoning and analysis of clients with complex health maintenance, health promotion and illness management specific to speciality. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7115 - Philosophical and Ethical Foundations of Nursing Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing in College of Nursing or C.I.

Analysis of the philosophical and ethical underpinnings of nursing science, linking it to the development of philosophy of science and personal philosophy.

Odd Fall, Even Fall

College of Nursing - Department of Nursing

NGR 7123 - Theory in Nursing Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a doctoral program in Nursing or C.I.

This course examines the foundations and application of theory in nursing science.

Odd Fall, Even Fall

College of Nursing - Department of Nursing

NGR 7163 - Illness as a Social Construct

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7818 or C.I.

Focused examination of concepts, theories, and research related to physical expression of disease and its link to individual psychosocial responses, beliefs, relationships and social environment. May be used in the degree program a maximum of 2 times.

Occasional

College of Nursing - Department of Nursing

NGR 7661 - Healthcare for Vulnerable Populations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing in the College of Nursing or C.I.

Health and healthcare issues of vulnerable populations and the influence of social, cultural, political and economic factors. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7673 - Epidemiology Principles in Advanced Practice Nursing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Doctor of Nursing Practice program or C.I.

Advanced application of epidemiological concepts in community and public health practice, including disease surveillance, prevalence, prevention and statistical management of patient aggregate data. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7748L - Advanced Clinical Practice Selective for Advanced Practice Nursing

1-3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 1-3

Contact Hours: 1-3

Prerequisite(s): NGR 7176 Corequisite(s): NGR 7065.

Clinical management of clients with complex health maintenance, health promotion and illness management needs. Graded S/U. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7778L - Advanced Leadership Selective for DNP

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Nursing Practice, Executive Doctor of Nursing Practice track or C.I.
Application of evidence-based management processes to support decision making in the health care environment.
Graded S/U. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7779C - Program Development and Management for DNP

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Nursing Practice, Executive Doctor of Nursing Practice track or C.I.
Application of inquiry, critical thinking and strategic planning skills related to project planning, management, evaluation and dissemination. Graded S/U. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7793 - Leadership and Economics in Advanced Practice Nursing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7891.

Advanced analysis of change management, leadership theories/strategies, finance and resource management and the health care systems and economic structures in Advanced Practice Nursing.

Summer

College of Nursing - Department of Nursing

NGR 7805 - Doctoral Scholarship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Ph.D. track or C.I.

An introduction to doctoral scholarship in support of beginning a program of research. Includes responsible conduct of science and research ethics consideration. May be used in the degree program a maximum of 2 times.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 7806 - Doctoral Scholarship II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7805 or C.I.

A continuation of Doctoral Scholarship with an emphasis on synthesizing the research and theoretical literature related to the students area of research. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 7807 - Research Approaches and Designs for Nursing and Healthcare**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing in the College of Nursing or C.I.

Quantitative and qualitative approaches to studying nursing and health related phenomena; ethical issues; internal and external validity; comparison of designs. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7808 - Qualitative Methods in Nursing and Healthcare II**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7815 Qualitative Methods I or equivalent or C.I.

Application of qualitative methodologies for in-depth study of nursing and health-related phenomena; hands-on experience with data collection, analysis, and interpretation. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7812 - Advanced Study Design and Methods**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7807; NGR 7817; NGR 7815; and NGR 7818 or NGR 7808; or C.I.

Identify and discuss evolving trends in advanced research design and methods as they apply to the development of nursing research programs.

Odd Spring, Even Spring

College of Nursing - Department of Nursing

NGR 7815 - Qualitative Methods in Nursing Research and Healthcare I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing in the College of Nursing or C.I.

Knowledge of qualitative research designs and methods for studying nursing and health-related phenomena. Course may be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7817 - Quantitative Methods for Nursing and Healthcare I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7807 or C.I.

Designing quantitative studies and related statistical analysis; maximizing statistical power; ethical issues related to nursing research. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7818 - Quantitative Methods for Nursing and Healthcare II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7817 Quant Methods I or its equivalent or C.I.

Advanced research designs; multivariate and biostatistical data analysis in nursing and health related research. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 7820 - Innovative Technologies in Healthcare

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing in the College of Nursing or C.I.

Application of innovative technologies in healthcare to research, teaching and practice. Legal, ethical and cultural issues related to technology transfer. May be used in the degree program a maximum of 2 times.

Summer

College of Nursing - Department of Nursing

NGR 7823 - Psychometrics and Measurement for Nursing Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7817, NGR 7815, or C.I.

Developing, testing and applying measurement theory in physiological and psycho social research analysis of psychometric properties of instruments and methods appropriate to theoretical perspectives and scientific rigor. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7827 - Concepts, Measurement, and Data Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Doctor of Nursing Practice program, NGR 6813 or equivalent, C.I.

Identification, analysis, and measurement of concepts; analysis and management of clinical data. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 7855C - Evidence-Based Practice Development for DNP

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Nursing Practice, Executive Doctor of Nursing Practice track or C.I.

Critique and synthesis of evidence for practice related questions. Includes analysis of the context where evidence will be applied. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Nursing - Department of Nursing

NGR 7892 - Healthcare Systems and Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing in the College of Nursing or C.I.

Underpinnings of healthcare policy; healthcare policy formation and change agency; influences on healthcare systems; related analysis and research. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 7911C - Doctoral Project I**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Doctoral standing in the College of Nursing or C.I.

Identification of a practice-based problem, integration of existing evidence to propose a project to address the problem. May be used in the degree program a maximum of 2 times.

Fall

College of Nursing - Department of Nursing

NGR 7912C - Doctoral Project 2**3 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): NGR 7911C - Doctoral Project I, Doctoral standing in the College of Nursing or C.I.

Implementation of a DNP Committee approved practice based project to address a health care problem. May be used in the degree program a maximum of 2 times.

Spring

College of Nursing - Department of Nursing

NGR 7913 - Doctoral Project 3**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7912C - Doctoral Project 2, Doctoral standing in the College of Nursing or C.I.

Completion of implementation, analysis of data, final paper approval and public presentation of DNP project.

Fall, Spring, Summer

College of Nursing - Department of Nursing

NGR 7916 - Research Grants Process and Proposal Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Grants process include writing elements of research proposal for HHH R-series applications and strategies for successful proposal preparation. May be used in the degree program a maximum of 2 times.

Occasional

College of Nursing - Department of Nursing

NGR 7919 - Doctoral Research

College of Nursing

NGR 7932 - Nursing Research Grants Process and Proposal Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

NGR 7916. The second of a Nursing two-course series on development and funding of programs of research; focuses on refinement of student research trajectories and grantsmanship for small research grant funding.

Spring

College of Nursing - All

NGR 7939C - Special Topics

College of Nursing

NGR 7942L - DNP Professional Practice Immersion

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Doctoral standing in the College of Nursing or C.I. Sponsored student immersion in a professional practice setting to promote advanced nursing leadership needs assessment, evaluation of public policy and design of care delivery models.

Fall, Spring, Summer

College of Nursing - All

NGR 7948L - Doctor of Nursing Practice Residency

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): NGR 7065; NGR 7748L.

Clinical management of clients with complex health maintenance, health promotion and illness management needs focusing on a continuum of care within health care systems or organizations. There is a 6 hour requirement.

Spring, Summer

College of Nursing - Department of Nursing

NGR 7952 - Scientific Writing for Nurses and Healthcare Professionals**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Graduate Nursing or Healthcare related discipline. Identify, discuss, and practice effective scientific writing elements as they apply to nursing and healthcare related disciplines; prepare a scientific manuscript for publication.

Fall

College of Nursing - All

NGR 7974 - Doctor of Nursing Practice Project**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): NGR 7176; NGR 7673, NGR 7115; NGR 7817; NGR 7123; NGR 7892; NGR 6874.

Analyze health care needs, develop an evidence based intervention and evaluate outcomes for a specific population within an identified health care setting.

Even Spring, Odd Summer

College of Nursing - Department of Nursing

NGR 7976L - Executive DNP Residency**3 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

NGR 7911C, NGR 7912C. Implementation of the Executive DNP Project.

Fall, Spring, Summer

College of Nursing - All

Optical Science and Engineering

OSE 5041 - Introduction to Wave Optics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EEL 4440 or PHY 4424 or C.I.

Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves.

Occasional

College of Optics and Photonics - Department of Optics and Photonics

OSE 5115 - Interference and Diffraction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admitted to a graduate program in Optics, Physics or Electrical Engineering, or C.I.

Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.

Fall, Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 5203 - Geometrical Optics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admitted to a graduate program in Optics, Physics or Electrical Engineering, or C.I.

Fundamentals of Geometrical Optics, Geometrical Theory of Image Formation and Aberrations.

Fall, Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 5312 - Light Matter Interaction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Microscopic theory of absorption, dispersion, and refraction of materials; classical and quantum mechanical description of optical properties.

Fall, Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 5414 - Fundamentals of Optoelectronic Devices

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices.

Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 5525 - Laser Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Principles of laser amplification and oscillations; design of lasers; general characteristics of excitation systems.

Spring, Summer

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 5917 - Directed Research

College of Optics and Photonics

OSE 5937 - Special Topics

College of Optics and Photonics

OSE 6111 - Optical Wave Propagation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams.

Fall, Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6120 - Theoretical Foundations of Optics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Mathematical concepts used in Optics. Topics covered include linear algebra, orthogonal expansions of functions, Fourier transforms, ordinary differential equations, and partial differential equations.

Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6125 - Computational Photonics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, OSE 6111 or C.I.

Computational methods for photonic guided wave structures, periodic structures, and integrated photonic structures and devices.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6143 - Fiber Optics Communication System

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and OSE 6111 and OSE 6474 or C.I.

Use of fiber optics as a communication channel. Principles of fiber optics. Mode theory, transmitters, modulators, sensors detectors and demodulators.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6211 - Imaging and Optical Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admitted to a graduate program in Optics, Physics or Electrical Engineering, or C.I.
Linear systems theory of discrete and continuous one- and two-dimensional systems. Applications to optical polarization, pulse propagation, and image formation.
Fall, Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6234C - Applied Optics Laboratory

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Graduate standing and OSE 5203 or C.I.
Laboratory Techniques for observing optical phenomena and quantitative experimental study of geometrical optics, optical interferometry, diffraction, and image processing.
Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6242 - Infrared Systems

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): GS in Electrical Engineering, or GS in Optics and Photonics, or C.I.
This course provides the background, theory, and practice of how to design, analyze, and test high performance infrared imaging systems.
Odd Fall, Even Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6265 - Optical Systems Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing and OSE 5203 or C.I.
Design principles of lens and mirror optical systems; evaluation of designs using computer techniques.
Occasional

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6313 - Materials for Optical Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Course reviews attributes of optical materials, physical properties and structural origin to predict performance and limitations of optical materials devices and components in optical systems.

Occasional

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6314 - Optics of Low Dimensional Semiconductors**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and OSE 5312 or C.I.

Optical properties and semiconductor physics of low-dimensional systems (quantum wells, wires, and dots), nano-phonic devices, and future nano-optical concepts.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6315 - Liquid Crystal Materials and Devices**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Basic liquid crystal materials and their physical, optical, and electro-optic properties; photonic devices for amplitude and phase modulations.

Occasional

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6319 - Optical Waves and Materials**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Reviews Optics and material properties important for propagation and control of light. This is a review course in preparation for the Ph.D. Qualifying Exam.

Occasional

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6330 - Stimulated and Holographic Scattering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The study of those processes in Nonlinear Optics, which are characterized by propagation of light in the media with the size considerably larger than the wavelength.

Occasional

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6334C - Nonlinear Optics

3 Credit Hours

Class Hours: 2.5

Lab and Field Work Hours: 0.5

Contact Hours: 3

Prerequisite(s): Graduate standing and OSE 6111 or C.I.

Maxwell's equations in nonlinear media, frequency conversion techniques (SHG, SFG, OPO), stimulated scattering, phase conjugation, wave-guided optics, nonlinear crystals.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6335 - Nonlinear Guided Wave Optics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and OSE 6334C or C.I.

The physics and applications of nonlinear optical interactions in fibers and planar waveguides is discussed, including parametric processes, all-optical effects and solutions.

Even Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6347 - Quantum Optics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and OSE 5312 or C.I.

Semiclassical treatment of light/matter interactions (quantized atomic states plus Maxwell's equations). Density matrix theory, coherent optical transients, pulse propagation.

Even Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6349 - Applied Quantum Mechanics for Optics and Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Presents the elements of quantum mechanics that are essential for understanding many areas in modern optics and photonics.

Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6416 - Organic Photonics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing, C.I. The course reviews optic and electronic properties inorganic molecules and polymers that are critical for photonic and opto-electronic applications.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6421 - Integrated Photonics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, OSE 6111 or C.I.

Reviews working principle, system functionality and design and fabrication issues of semiconductor integrated photonic devices and circuits for optical telecommunication and interconnect applications.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6432 - Guided Waves and Optoelectronics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and OSE 6111 or OSE 5041 or C.I.

Principles of guided wave optics, electro-optics, acousto-optics and optoelectronics.

Spring, Summer

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6445 - Fundamentals of Ultrafast Optics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, and OSE 6111 or PHY 5346, and OSE 5525, or C.I.

Introductory concepts: Ultrafast Optical Signal Generation, Ultrafast Signal Detection, Ultrafast Optical Signal Transmission, and Ultrafast Optical Signal Processing.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6447 - Attosecond Optics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing, and OSE 6349 or PHY 5606, and OSE 6111 or PHY 5346 or OSE 5525, or C.I. Introduction of the forefront of attosecond optics research. Topics include the fundamental theories and latest journal publications.

Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6455C - Photonics Laboratory

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Graduate standing, and OSE 5414 and OSE 6474, or C.I.

Experimental study of photonic devices and systems including liquid crystal displays, fiber-optic sensors, laser diodes, electro optic modulation, acousto-optic modulation, lightwave detection, optical communications, and photonic signal processing.

Even Fall, Odd Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6474 - Fundamentals Optical Fiber Communications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing; OSE 6111, or C.I.

GS; OSE 6111, or C.I. Introduces key principles and analysis of optical communication systems. Emphasis on developing the ability to analyze and design digital, analog fiber-based systems and networks.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6526C - Laser Engineering Laboratory**3 Credit Hours**

Class Hours: 1

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Graduate standing and OSE 5525 or C.I.

Designing and device implementation of diode pumped solid-state lasers, nonlinear frequency conversion, Q-switching, mode locking, and pulse second harmonic generation.

Summer

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6527 - Fiber Lasers**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

GS and OSE 5525, and OSE 6432 or OSE 6474. This course combines an introduction to fiber lasers with detailed technical discussions based on reviews of recent progress and latest developments in fiber laser research.

Even Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6536 - Semiconductor Lasers**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and OSE 5414 or C.I.

Light-matter interaction, thermal physics and solid state physics to understand, analyze, and engineer semiconductor lasers with different active region dimensionalities.

Odd Spring, Even Spring

College of Optics and Photonics - Department of Optics and Photonics

OSE 6615L - Optoelectronic Device Fabrication Laboratory

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Graduate standing or C.I.

Design and micro-fabrication of semiconductor optoelectronics devices including passive waveguides, light emitting diodes (LEDs), laser diodes (LDs), photodetectors and electro-optic modulators.

Fall

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6650 - Optical Properties of Nanostructured Materials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing OSE 6111, OSE 5312, or C.I.

Theory and application of nanostructured optical materials: Effective medium theory, nanostructured surfaces, plasmon waveguides, nanophotonic circuits, metallic near-field lenses, collective modes in nanoparticle arrays, metamaterials.

Spring

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6820 - Flat Panel Displays

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Liquid crystal display, projection display, micro display, plasma display, light emitting diodes, organic light emitting display, and field emission display.

Occasional

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 6908 - Special Topics

College of Optics and Photonics

OSE 6909 - Research Report

College of Optics and Photonics

OSE 6938 - Special Topics

College of Optics and Photonics

OSE 6938 - ST: Infrared Detectors

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Discusses major types of infrared detectors including thermal, photoconductors, photovoltaic, and photodiodes. Emphasis on modern staring-infrared-focal-plane design. Review of design and measurement of detector properties that contribute to detector sensitivity.

College of Optics and Photonics

OSE 6971 - Special Topics

College of Optics and Photonics

OSE 7919 - Research

VAR Credit Hours

Contact Hours: 0

Fall, Spring, Summer

College of Optics and Photonics - Department of College of Optics and Photonics

OSE 7919 - Special Topics

College of Optics and Photonics

OSE 7980 - Dissertation

College of Optics and Photonics

Paralegal/Legal Assistant/Legal Administration

PLA 5587 - Current Issues in Cyberlaw

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Advanced examination and discussion of free speech, copyright, trademark, patent and privacy issues in the online environment through interactive class discussions, online discussions, postings, case study reviews, and legal research projects.

Occasional

College of Community Innovation and Education - Department of Legal Studies

PLA 5917 - Directed Research

College of Community Innovation and Education

PLA 6245 - Advanced Applied Negotiation and Conflict Resolution

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing. Students should have already completed either PLA 6247 Conflict Resolution Theory or PLA 6515 Understanding Human Behavior and Conflict prior to enrolling in this course. Course provides students ability to understand the negotiation process and become stronger negotiators. Students delve into real-world conflict situations with an eye toward resolution.

Odd Spring, Even Spring

College of Community Innovation and Education - Department of Legal Studies

PLA 6246 - Advanced Mediation and Conflict Resolution Practicum

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 1

Prerequisite(s):

Graduate Standing. Students should have already completed all other requirements of their program or be completing their degree in the same semester they are participating in the practicum.

The Advanced Mediation and Conflict Resolution Practicum allows students to gain real-world or simulated real-world experience to enhance their own mediation and conflict resolution skills by engaging in either a community mediation program, an externship, or a graduate level academic competition.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - Department of Legal Studies

PLA 6247 - Conflict Resolution Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing.

This course is an exploration of various theories on conflict resolution and practice.

Odd Fall, Even Fall

College of Community Innovation and Education - Department of Legal Studies

PLA 6486 - Administrative Law

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The study of administrative law and procedure on the federal, state and local levels.

Spring

College of Community Innovation and Education - Department of Legal Studies

PLA 6487 - Legal and Ethical Compliance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

Critical compliance issues and the importance of responsible conduct of research including export control, conflict of interest, protection of animal/human subjects and research misconduct.

Occasional

College of Community Innovation and Education - Department of Legal Studies

PLA 6488 - Legal and Regulatory Framework

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

Outline the various requirements governing research (OMB Circulars, Federal Acquisition Regulations and other federal state and local regulations).

Occasional

College of Community Innovation and Education - Department of Legal Studies

PLA 6515 - Understanding Human Behavior and Conflict

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing and PLA 6247.

This course is an exploration of theories underpinning human behavior in conflict and the tools for navigating these behaviors in a variety of settings.

Odd Fall, Even Fall

College of Community Innovation and Education - Department of Legal Studies

PLA 6909 - Research Report

College of Community Innovation and Education

PLA 6918 - Directed Research

College of Community Innovation and Education

PLA 6938 - Special Topics

College of Community Innovation and Education

Parks and Zoos

PAZ 5235 - Zoo and Aquarium Biology Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Conservation, propagation and exhibition of wild animals in captivity.

Summer

College of Sciences - Department of Biology

Personality

PPE 5917 - Directed Research

College of Sciences

PPE 5937 - Special Topics

College of Sciences

PPE 6909 - Research Report

College of Sciences

PPE 6918 - Directed Research

College of Sciences

PPE 6938 - Special Topics

College of Sciences

Philosophy

PHI 5225 - Philosophy of Language

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate certificate in Cognitive Sciences or C.I.

Philosophy of the nature of language and relationships between language, reality, cognition, and culture.

Occasional

College of Arts and Humanities - Department of Philosophy

PHI 5324 - Foundations Cognitive Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Cognitive Sciences MA program or C.I.

Critical evaluation of conceptual, historical, and theoretical foundations of the cognitive sciences.

Fall

College of Arts and Humanities - Department of Philosophy

PHI 5325 - Topics in Philosophy of Mind

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into graduate certificate program in Cognitive Sciences or C.I.

Contemporary issues in philosophy of mind, including explanatory gap, and the problem of other minds.

Occasional

College of Arts and Humanities - Department of Philosophy

PHI 5327 - Topics in the Cognitive Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate certificate program in Cognitive Sciences or C.I.

Theoretical issues and empirical studies in the cognitive sciences, including contemporary discussions of mind, brain, artificial intelligence, pathologies, behavioral capacities.

Fall

College of Arts and Humanities - Department of Philosophy

PHI 5328 - Philosophies of Embodiment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate certificate in Cognitive Sciences or C.I.

Relations among mind, body, and nature. Knowledge of self, world and others as articulated by Western philosophy, with special emphasis on embodied cognition.

Occasional

College of Arts and Humanities - Department of Philosophy

PHI 5329 - Philosophy of Neuroscience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate certificate in Cognitive Sciences or C.I.

Neurophilosophy, including discussion of promises and limitations of neuroscience for understanding of the mind.

Occasional

College of Arts and Humanities - Department of Philosophy

PHI 5340 - Research Methods in the Cognitive Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate certificate program in Cognitive Sciences or C.I.

Interdisciplinary research methods in the cognitive sciences.

Spring

College of Arts and Humanities - Department of Philosophy

PHI 5627 - Theoretical and Applied Ethics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, or graduate standing or C.I.

A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content.

Fall

College of Arts and Humanities - Department of Philosophy

PHI 5634 - Medical Ethics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Ethics for practitioners of clinical medicine, health care delivery and medical research.

Fall

College of Arts and Humanities - Department of Philosophy

PHI 5665 - Knowledge, Responsibility, and Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4931 or Graduate standing.

A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content.

Occasional

College of Arts and Humanities - Department of Philosophy

PHI 5687 - Ethics in Science and Technology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. The relationship between ethics and the pursuit and application of human knowledge, emphasizing the responsibility of scientists to society.

Occasional

College of Arts and Humanities - Department of Philosophy

PHI 5697 - Neuroethics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Advanced ethical issues associated with the mind sciences, especially neuroscience.

Occasional

College of Arts and Humanities - Department of Philosophy

PHI 5917 - Directed Research

College of Arts and Humanities

PHI 5937 - Special Topics

College of Arts and Humanities

PHI 6679 - Digital Ethics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Critical examination of the nature and scope of the digital and its ethical implications for social structures and institutions, and human and nonhuman nature.

Occasional

College of Arts and Humanities - Dean's Office - College of Arts and Humanities

Philosophy of Man and Society**PHM 5035 - Environmental Philosophy****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHI 3640, PHI 2630, graduate status or senior standing, or C.I.

This course will provide an in-depth examination of the major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology.

Occasional

College of Arts and Humanities - Department of Philosophy

PHM 5917 - Directed Research

College of Arts and Humanities

PHM 5937 - Special Topics

College of Arts and Humanities

Photography

PGY 5108C - Photography Theory and Practice

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 2

Prerequisite(s): Graduate Standing or C.I.

Focuses on the study and practice of theory and photography as contemporary art making through readings, discussions, lectures, demos, web-based resources, in-class exercises and projects.

Occasional

College of Arts and Humanities - School of Visual Arts and Design

PGY 5917 - Directed Research

College of Arts and Humanities

PGY 5937 - Special Topics

College of Arts and Humanities

Phys. Edu. Acts. (Gen): Perform. Centered, Land

PEM 5917 - Directed Research

College of Community Innovation and Education

PEM 5937 - Special Topics

College of Community Innovation and Education

Phys. Edu. Acts. (Prof.): Object Centered, Land

PEO 5917 - Directed Research

College of Health Professions and Sciences

PEO 5937 - Special Topics

Physical Education Theory

PET 5216 - Motivational Aspects of Coaching

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Assist students to understand and conceptually integrate mental and physical performance, mental rehearsal, motivation, effort, persistence, adherence and compliance, measurement and evaluation, and other related topics of interest.

Even Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 5355 - Exercise Physiology I

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission to Kinesiology MS or Exercise Physiology PhD or C.I.

Provides an in-depth understanding of systems physiology with an emphasis on responses to various exercise intensities and modalities, and homeostatic control.

Odd Fall, Even Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 5495 - Critical Issues: Ethics in Coaching and Sport

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Specializes in coaching and sport leadership in self-evaluating, examining, and developing philosophy, values, and moral reasoning skills.

Even Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 5766 - Advanced Coaching Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): C.I.
Advanced study of theories and methods of coaching for optimum sports performance.
Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 5917 - Directed Research

College of Community Innovation and Education

PET 5937 - Special Topics

College of Health Professions and Sciences

PET 6096 - Youth Physical and Athletic Development

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Graduate standing or C.I. This class will introduce concepts associated with sport and physical activity development in youth athletes. A multi-factorial, systematic approach to the development process, including discussion of key factors, such as physical literacy, talent identification, specialization, etc. will be presented. Students will also become familiar with the theory and practice of strength and conditioning for children and young athletes.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6217 - Peak Performance in Sports

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Admission to Kinesiology MS or C.I.
An in-depth study of mental and physical performance, including mental rehearsal, motivation, effort, and persistence.
Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6335 - Functional Anatomy and Kinesiology

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Admission to the Kinesiology MS or Education PhD - Exercise Physiology track or C.I.
Overview of functional anatomy and fundamental movements from a biomechanical perspective.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6347 - Advanced Coaching Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Stimulate philosophic thinking and foster a spirit of confidence in the coaching profession by showing coaches various methods they can use to teach their athletes.

Odd Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6357C - Environmental Perturbation and Human Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

A study of physiological adaptation resulting from prescribed physical activity programs.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6363 - Dietary and Nutritional Supplementation for Athletic Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An in-depth study of the efficacy of dietary and nutritional supplements used to enhance athletic performance and improve activities of daily living.

Even Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6366 - Exercise, Nutrition and Weight Control

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Explores the interrelationship between nutrition, energy metabolism and exercise performance.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6367 - Bioenergetics of Human Movement and Performance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Kinesiology MS or C.I.

Analysis of substrate metabolism at rest, during acute exercise and following exercise training.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6372 - Physical Activity and Nutritional Epidemiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Kinesiology MS or Education PhD-Exercise Physiology track or C.I.

Overview of the epidemiology of physical activity, sedentary behavior and nutrition and the interaction of physical activity and nutrition with disease from a global and cultural perspective.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6376 - Sport Nutrition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

Study of the proper nutrition for training, the role of macro and micronutrients on the physiological processes of the body, and the importance of nutrient timing.

Even Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6381 - Physiology of Neuromuscular Mechanisms

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Human body morphology and function critical in producing motion, strength, power, and endurance.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6388 - Cardiovascular Physiology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Anatomy and Physiology or equivalent.

Operation of the cardiovascular system in vivo.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6389 - Exercise Physiology II**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission to Kinesiology MS or Exercise Physiology PhD or C.I.

An in-depth study of adaptations of various physiological systems to exercise training and the effects of environmental factors on physiological systems and performance.

Odd Spring, Even Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6391 - Training and Conditioning Techniques for Coaches**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PET 5355.

Knowledge and application of training and conditioning as it relates to the improvement of physical athletic performance and fitness.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6395 - Program Design in Strength and Conditioning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

An in-depth study of various types of training, including insights on developing athletes' strength, power, anaerobic conditioning, endurance, agility, and speed.

Odd Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6515 - Assessment and Evaluation in Kinesiology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Kinesiology MS or C.I.

Techniques of assessment and evaluation of human performance and their applications to kinesiology.

Material and Supply Fee: \$47.00 *Spring*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6521 - Exercise Physiology Instrumentation**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Instrumentation management and assessment protocols related to select exercise physiological parameters: anthropometric, bioenergetic, blood lactate, joint flexibility, and muscle rheology, strength and fatigue curve measurements.

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6690 - Exercise Prescription for Special Populations**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

Designed to provide the student the basic understanding of exercise testing and prescription as it pertains to special populations.

Odd Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6909 - Research Report

College of Health Professions and Sciences

PET 6910 - Problem Analysis - Review of Literature

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Kinesiology MS and C.I.

Comprehensive review of literature related to a selected topic in kinesiology; identification, analysis, and evaluation of developments, issues, and research problems. May be repeated for credit.

Every Semester

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 6918 - Directed Research

College of Health Professions and Sciences

PET 6938 - Special Topics

College of Health Professions and Sciences

PET 6946 - Practicum, Clinical Practice

3-6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 8-16

Contact Hours: 8-16

Prerequisite(s): Admission to Kinesiology MS and C.I.

Field experience in a kinesiology-related organization, association or business. May be repeated for credit.

Every Semester

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 7365 - Cardiovascular Dynamics During Exercise

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

An examination of the cardiovascular regulatory mechanism responsible for the adjustment to acute and chronic exercise.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 7368 - Regulation of Metabolism During Exercise

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

An examination of the metabolic regulatory mechanism responsible for the adjustment to acute and chronic exercise.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 7387 - Exercise Endocrinology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the program or C.I.

An in-depth study of the neuroendocrine system and the hormonal responses to exercise.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PET 7919 - Research

College of Health Professions and Sciences

Physical Therapy

PHT 5003 - Foundations of Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to the Physical Therapy program.

Introduction to the profession of physical therapy.

Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5125 - Clinical Kinesiology

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Corequisite(s): PHT 5125L.

Investigates the mechanical aspects of human movement, joint mechanics of the upper and lower extremity, the vertebral column and tissue mechanics of relevant human tissues.

Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5125L - Clinical Kinesiology Lab

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Corequisite(s): PHT 5125.

Graduate level study of human musculoskeletal movement with an emphasis on joint mechanics and clinical applications.

Material and Supply Fee: \$35.00 *Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5218C - Therapeutic Modalities in Rehabilitation

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to the Doctor of Physical Therapy Program.

Theories of physical agents, heat, light, cold, water, sound, and massage; problem solving rationale and selection of interventions for inflammation, pain, edema, and weakness.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5240 - Physical Assessment

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Physical Assessment Lab. Extensive theory and practice in the examination of the patient.

Incorporate a systems approach, utilizing screening, and patient problem solving.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5240L - Physical Assessment Lab

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 4

Contact Hours: 4

Corequisite(s): Physical Assessment.

Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient.

Material and Supply Fee: \$45.00 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5241 - Therapeutic Exercises I**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Corequisite(s): Therapeutic Exercises I Lab.

Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5241L - Therapeutic Exercise Lab I**2 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 4

Contact Hours: 4

Prerequisite(s): Therapeutic Exercise I.

Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

Material and Supply Fee: \$20.00 *Spring*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5260 - Patient Care Skills**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Corequisite(s): Patient Care Skills Lab.

Affective, cognitive, and psychomotor skills, regarding patient care. Basic skills of patient care, transfers, mobility skills, draping, gait training.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5260L - Patient Care Skills Lab

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 4

Contact Hours: 4

Corequisite(s): PHT 5260

Skills of patient care, transfers, mobility skills.

Material and Supply Fee: \$30.00 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5718 - Neurological Physical Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): PHT 5718L

Analysis of selected neuromotor theories and their clinical applications. Examinations and interventions for the evaluation and treatment of neurological patients presented.

Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5718L - Neurological Physical Therapy Lab

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Corequisite(s): Neurological Physical Therapy.

Lab Course emphasizing the clinical application of selected neuromotor theories.

Material and Supply Fee: \$30.00 *Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 5917 - Directed Research

College of Health Professions and Sciences

PHT 5937 - Special Topics

College of Health Professions and Sciences

PHT 5937L - Special Topics

College of Health Professions and Sciences

PHT 6070C - Radiology/Imaging for Physical Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to DPT program.

A diagnostic imaging course focusing on clinical implications in rehabilitation. The focus will be on patients with neurological and orthopedic disorders.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6115C - Gross Anatomy/Neuroscience I

6 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Admission to DPT program.

Study of human anatomy via lecture and cadaver dissection emphasizing upper and lower extremity, musculoskeletal, peripheral vascular and peripheral nervous systems, thoracic and abdominopelvic cavities.

Material and Supply Fee: \$70.00 *Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6118C - Gross Anatomy/Neuroscience II

6 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 6

Contact Hours: 9

Prerequisite(s): Gross Anatomy/Neuroscience I.

Comprehensive study of anatomy and physiology of the nervous system to develop DPT students' improved treatment strategies for patients with neurological problems.

Material and Supply Fee: \$70.00 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6119L - Seminar in Anatomical Sciences Techniques

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Admission to the Anatomical Sciences Graduate Certificate.

Development of skills as an anatomist with an emphasis on integrating a diverse repertoire of scientific technique.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6153 - Physiologic Assessment in Physical Therapy Practice

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s):

PHT 6156C.

Course provides clinical applications and laboratory demonstrations of human musculoskeletal, neurological, cardiovascular, hemopoietic, respiratory, gastrointestinal, and renal systems.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6156 - Applied Human Physiology for Health Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Physical Therapy program.

Course provides in-depth study of human cardiovascular, hemopoietic, respiratory, gastrointestinal, renal and reproductive systems with emphasis on mechanisms responsible for maintaining homeostasis.

Occasional

College of Community Innovation and Education - School of Kinesiology and Physical Therapy

PHT 6156C - Applied Human Physiology for Health Sciences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Physical Therapy program.

Course provides in-depth study of human cardiovascular, hemopoietic, respiratory, gastrointestinal, renal and reproductive systems with emphasis on mechanisms responsible for maintaining homeostasis.

Material and Supply Fee: \$25.00 *Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6219C - Pain Mechanisms and Treatment in Rehabilitation

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): Admission to Doctor of Physical Therapy program.

This course will cover current concepts in pain science, including theoretical models for the basis of pain and the multidimensional nature of pain.

Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6242 - Orthopedic Physical Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Corequisite(s): PHT 6242L

Examination and interventions for the evaluation and treatment of specific orthopedic cases and injuries presented.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6242L - Orthopedic Physical Therapy Lab

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Corequisite(s): Orthopedic Physical Therapy.

Lab course emphasizing the examinations and interventions for the evaluation and treatment of specific orthopedic cases and injuries.

Material and Supply Fee: \$40.00 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6245 - Therapeutic Exercise II

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): PHT 5218 and PHT 5218L Corequisite(s): PHT 6245L

Exploration of the various therapeutic exercise modalities, and their application to the rehabilitation course of treatment.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6245L - Therapeutic Exercise II Lab

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Therapeutic Exercise I and Lab Corequisite(s): Therapeutic Exercise II.

Lab course emphasizing the use of the various therapeutic exercise modalities.

Material and Supply Fee: \$15.00 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6306 - Pathology in Rehabilitation**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to Doctor of Physical Therapy program.

Organized seminars on the pathophysiology and clinical manifestations and treatments of various medical conditions as they relate to medical management in rehabilitation.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6322C - Pediatric Physical Therapy**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to DPT program.

Study of the normal neurodevelopmental sequences for pediatric clinical assessment and physical therapy intervention provided to clients with abnormal diseases and dysfunction.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6356 - Pharmacology in Rehabilitation**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to the Doctor of Physical Therapy program.

Mechanisms of drug action, dose-response relations, pharmacokinetics, drug delivery systems, drug metabolism, toxicity of pharmacological agents, and drug interaction as it relates to rehabilitation.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6374C - Geriatric Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to the Doctor of Physical Therapy program.

This course provides an introduction to physiological aging and physical therapy management of the older adult. Includes examination, evaluation, and development of intervention programs focusing on exercise, prevention, education, and modification programs.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6381C - Cardiopulmonary Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to DPT program.

Examinations and interventions for the management of chronic and acute cardiopulmonary problems. Teaching patient strategies for preventing/managing dysfunction.

Material and Supply Fee: \$15.00 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6510 - Administration of Anatomical Sciences Laboratory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate or professional level gross human cadaver dissection course.

Developing administrative skills for educators in the anatomical sciences with an emphasis on laboratory safety, health concerns, and cadaver procurement and storage to prepare educators for graduate and professional programs.

Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6521 - Management of Physical Therapy Services

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to DPT program.

Planning, organizing, delivering and evaluating physical therapy services within a health care system, including quality

management, third party payers, DRG's and legislative impact.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6606 - Research Methods in Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to DPT program.

Methods of research applied to clinical environment of physical therapy. Coverage of the language, logic, design and analysis of clinical research.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6618 - Research Applications in Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Research methods in Physical Therapy - PHT 6606.

To evaluate research studies, focus on evidence-based practice. SPSS and principles of epidemiology will be introduced.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6716C - Advanced Orthopedic Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Orthopedic Physical Therapy Corequisite(s): Advanced Orthopedic Physical Therapy Lab.

Specific rehabilitative protocols regarding particular orthopedic injuries and illnesses are presented. Focus on the previous course work in therapeutic modalities, anatomy, physiology, and therapeutic exercises incorporated.

Material and Supply Fee: \$25.00 *Spring*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6719 - Advanced Neurological Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): PHT 5718 Corequisite(s): PHT 6719L.

Examinations and interventions for the evaluation and treatment of the neurological patient. Emphasis on patients with spinal cord injury and neurological diseases.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6719L - Advanced Neurological Physical Therapy Lab

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): PHT 5718L Corequisite(s): PHT 6719.

Course Emphasizing examinations and interventions for the evaluation and treatment of patients with neurological disease. Emphasis on patients with spinal cord injury and neurological disease.

Material and Supply Fee: \$25.00 *Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6720 - Integumentary Physical Therapy

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Physical Therapy program.

Instruction in contemporary issues and specialized care of the integumentary system provided by physical therapists.

Material and Supply Fee: \$45.00 *Spring*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6805C - Clinical Education I

4 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 20

Contact Hours: 1

Prerequisite(s): Admission to DPT program.

Collaborative course where students meet to analyze, synthesize and discuss current professional, ethical and moral decision-making in physical therapy setting, culminating in a six-week clinical internship.

Material and Supply Fee: \$12.50 *Odd Fall, Even Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6909 - Research Report

College of Health Professions and Sciences

PHT 6918 - Directed Research

College of Health Professions and Sciences

PHT 6938 - ST: Administration of Anatomical Sciences Laboratory

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): PHT 6115C.

The course focuses on developing administrative skills as an educator in the anatomical sciences emphasizing laboratory safety, health concerns, and cadaver procurement and storage.

Summer'

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6938 - ST: Seminar in Anatomical Sciences Techniques

2 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): PHT 6115C.

Development of skills as an anatomist with an emphasis on integrating a diverse repertoire of scientific technique.

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 6958 - Study Abroad

PHT 7021 - Professional Practice in Physical Therapy

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Foundations of Physical Therapy.

Professional development, ethics and strategies to address cultural diversity issues, communication skills and different styles of learning to prepare for clinical practice as a doctoring healthcare professional in physical therapy.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7134C - Physical Therapy Integration

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1
Contact Hours: 3

Prerequisite(s): PHT 7722C

This course integrates foundational knowledge of physiology and pathology to develop physical therapy skills for examinations and interventions of medically complex patients and special populations.

Material and Supply Fee: \$15.00 *Spring*

College of Health Professions and Sciences - Department of Health Sciences

PHT 7329C - Advanced Pediatric Physical Therapy

1 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): Admission to DPT program.

Course provides an advanced look into abnormal motor development, neurological and orthopedic diseases/conditions, interventions, examinations and other aspects of the patient/client management model for the pediatric population.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7521 - Management of Physical Therapy Services II

2 Credit Hours

Class Hours: 2
Lab and Field Work Hours: 0
Contact Hours: 2

Prerequisite(s): PHT 6521.

Application of management, finance and economic health-related principles for strategy development, implementation and assessment for the physical therapy manager.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7702C - Advanced Orthotics and Prosthetics

2 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): PHT 6245, PHT 6245L.

Advanced considerations for the amputee patient with regards to rehabilitation. Students will review the primary focal issues surrounding rehabilitation after an amputation and how prosthetics may assist with functional return.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7721C - Integrations in Orthopedic Physical Therapy

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): PHT 6716C.

Designed to correlate all previous coursework in curriculum in study presentations. Advanced evaluation procedures included. Advanced knowledge of differential diagnosis in the orthopedic patient covered.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7722C - Integrative Clinical Practice

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to DPT program.

This course emphasizes the synthesis of clinical and differential diagnostic skills required of a physical therapist in order to enter clinical practice.

Material and Supply Fee: \$15.00 *Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7730C - Primary Care for the Physical Therapist

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): Admission to DPT program.

Students learn higher level diagnostic screening skills to make clinical decisions. The course takes a system approach including system review, clinical signs and symptoms and case studies.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7742C - Acute Care Physical Therapy

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): PHT 6306

Considerations and evidence-based evaluation, treatment, and management of patients in various settings within acute care.

Odd Fall, Even Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7764C - Advanced Neurological Treatment

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): PHT 6719, PHT 6719L, PHT 7772C.

This course can provide third year students with the opportunity to further explore evidence-based neurological intervention.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7772C - Advanced Neurological Physical Therapy II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): PHT 6719 and PHT 6719L.

Problem-based learning provides a team based interdisciplinary problem-solving environment where students devise solutions and approaches to problems encountered by physical therapists treating patients with neurological problems.

Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7778C - Advanced Manual Therapy

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): PHT 6716C, PHT 7721C.

Concepts associated with advanced manipulative interventions in the context of physical therapy care. Indications and contra-indications will be reviewed and applied in a clinical context.

Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7779C - Sports Physical Therapy

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission to the Doctor of Physical Therapy program.
Considerations and evidence-based evaluation, treatment, and management of patients with sport-related injuries.
Spring

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7780C - Advanced Geriatric Physical Therapy

1 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): PHT 6374C.
Advanced topics in geriatric rehabilitation.
Fall

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7822C - Clinical Education II

6 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 40
Contact Hours: 1

Prerequisite(s): Admission to the Doctor of Physical Therapy program.
Collaborative course for third year students to meet, analyze, synthesize and discuss current ethical, legal, and moral decision-making in physical therapy clinical setting culminating in internship.
Material and Supply Fee: \$12.50 *Odd Summer, Even Summer*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7823C - Clinical Education III

4 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 20
Contact Hours: 1

Prerequisite(s): PHT 7822C.
Clinical education course to synthesize ethical, legal, and professional contemporary practice with evidence-based intervention, culminating in a full-time, 8-week clinical internship in physical therapy practice setting.
Material and Supply Fee: \$12.50 *Odd Fall, Even Fall*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7829C - Clinical Education IV

4 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 20

Contact Hours: 1

Prerequisite(s): PHT 7823C.

Clinical education course to synthesize ethical, legal, and professional contemporary practice with evidence-based intervention, culminating in a full-time, terminal 8-week clinical internship in physical therapy practice setting prior to graduation.

Material and Supply Fee: \$12.50 *Odd Spring, Even Spring*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7900 - Capstone Project in Physical Therapy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to DPT program.

Directed research culminating in a substantive paper related to the art or science of Physical Therapy.

Material and Supply Fee: \$13.09 *Spring*

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

PHT 7999 - Physical Therapy Residency

2 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Beyond the earned Doctor of Physical Therapy degree and C.I. Instruction for post-professional physical therapy residency program fostering advanced clinical practice as outlined by the American Board of Physical Therapy Specialties.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

Physics

PHY 5346 - Electrodynamics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 4324, and graduate status or senior standing or C.I.

Special Relativity, Charges in Electromagnetic Fields, Electromagnetic Field Equations, Constant Fields, Electromagnetic Waves, Propagation of Light, Fields of Moving Charges, and Radiation of Electromagnetic Waves.

Odd Fall, Even Fall

College of Sciences - Department of Physics

PHY 5524 - Statistical Physics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 3513, STA 3032, and graduate status or senior standing or C.I.

A study of physical concepts and methods appropriate for the description of systems involving many particles. Ensemble theory, partition functions. Maxwell Boltzmann, Bose-Einstein, Fermi-Dirac statistics.

Spring

College of Sciences - Department of Physics

PHY 5606 - Quantum Mechanics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 4605, and graduate status or senior standing or C.I.

Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schrodinger equation, matrix formulation, and time independent perturbation theory.

Fall

College of Sciences - Department of Physics

PHY 5715 - Physical Basis of Life

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Molecular and physical principles of origin of life, physical and chemical interpretation of life processes.

Fall

College of Sciences - Department of Physics

PHY 5817L - Building Physics Apparatus

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing and C.I.

Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work.

Material and Supply Fee: \$45

College of Sciences - Department of Physics

PHY 5917 - Directed Research

College of Sciences

PHY 5933 - Selected topics in biophysics of macromolecules

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 3101, CHM 2046, and graduate status or senior standing or C.I.

Physical concepts and techniques used in the spectroscopic study of dynamic structure and function of biological macromolecules such as proteins; Connections with other complex systems. May be repeated for credit.

Occasional

College of Sciences - Department of Physics

PHY 5937 - Special Topics

College of Sciences

PHY 6246 - Classical Mechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Variational principles. Lagrange, Hamiltonian, and Poisson bracket formulations of mechanics. Hamilton's principle of least action. Hamilton-Jacobi theory. Perturbation theory. Continuous systems. Chaos.

Occasional

College of Sciences - Department of Physics

PHY 6347 - Electrodynamics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 5346, or C.I.

Electrostatics of Conductors, Electrostatics of Dielectrics, Steady Current, Static Magnetic Field, Superconductivity,

Quasi-static Electromagnetic Field, Electromagnetic Wave Equations, and Propagation of Electromagnetic Waves.
Odd Spring, Even Spring

College of Sciences - Department of Physics

PHY 6600C - Theory and Computations of Molecular Wavefunctions

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Undergraduate Quantum Mechanics or Physical Chemistry or C.I.

Approximate method of solving electronic Schrodinger equation for molecular systems: Hartree-Fock and semiempirical methods, basis sets, multireference wavefunction theory methods, potential surfaces, and electronic transitions.

Even Fall

College of Sciences - Department of Physics

PHY 6624 - Quantum Mechanics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 5606 or C.I.

Time dependent perturbation theory, exchange symmetry, Dirac Equation, second quantization, and scattering theory.

Spring

College of Sciences - Department of Physics

PHY 6667 - Quantum Field Theory I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 6347 and PHY 6624 or C.I.

Second quantization and fields, relativistic equations, path integral quantization, gauge fields.

College of Sciences - Department of Physics

PHY 6909 - Research Report

College of Sciences

PHY 6918 - Directed Research

College of Sciences

PHY 6938 - Special Topics

College of Sciences

PHY 6949 - Cooperative Education in Physics

College of Sciences

PHY 7669 - Quantum Field Theory II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 6667 or C.I.

Regularization, renormalization, spontaneous symmetry breaking, unification, topological objects, supersymmetry.

College of Sciences - Department of Physics

Physics (Continued)

PHZ 5156 - Computational Physics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHZ 3151 or C.I.

Computational methods applied to the solution of problems in many branches of physics. May be repeated for credit.

Fall

College of Sciences - Department of Physics

PHZ 5304 - Nuclear and Particle Physics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 4604 or equivalent, and graduate status or senior standing or C.I.

Particles and nuclei, symmetries and conservation laws, interactions, models.

Occasional

College of Sciences - Department of Physics

PHZ 5405 - Condensed Matter Physics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 4604, PHY 3101, and graduate status or senior standing or C.I.

Crystal lattice cell structure, phonons, free electron model, band theory of solids, Fermi surface, solid state applications, and polymers.

Occasional

College of Sciences - Department of Physics

PHZ 5432 - Introduction to Soft Condensed Matter Physics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 3513 or C.I.

Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics.

Occasional

College of Sciences - Department of Physics

PHZ 5505 - Plasma Physics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 4324, and graduate status or senior standing or C.I.

Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion.

Occasional

College of Sciences - Department of Physics

PHZ 5625 - General Relativity**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Introduction to Einstein's theory of gravitation.

Odd Spring

College of Sciences - Department of Physics

PHZ 5917 - Directed Research

College of Sciences

PHZ 5937 - Special Topics

College of Sciences

PHZ 6234 - Atomic Physics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 6624 or OSE 6347.

Brief review of spectroscopy, photoionization, inner shell processes, Auger effect, atom-atom collisions, electron-atom collisions, spin polarization.

College of Sciences - Department of Physics

PHZ 6420 - First Principles Computational Methods in Condensed Matter Physics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 5606 - Quantum Mechanics I.

Introduction to density functional theory and first principles computational methods used in modern condensed matter physics with hand-on sessions using computers.

Occasional

College of Sciences - Department of Physics

PHZ 6426 - Condensed Matter Physics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHY 5606, and either PHY 6624 or OSE 6347.

Quantum theory of crystalline solids: crystals, electronic band structure, metals, insulators, semiconductors, electron interactions in solids, lattice dynamics.

Occasional

College of Sciences - Department of Physics

PHZ 6428 - Condensed Matter Physics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHZ 6426.

Many-body theory: Green's functions, Feynman diagrams, screening in the electron gas, linear response theory, magnetism, conductivity, electron-phonon interactions, superconductivity, superfluids.

Occasional

College of Sciences - Department of Physics

PHZ 6439 - Interfacial Physics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and PHY 5606, or C.I. A conceptual understanding of fundamental electronic and structural characteristics relevant to surfaces and the experimental methodologies used to investigate them.

Odd Fall

College of Sciences - Department of Physics

PHZ 6909 - Research Report

College of Sciences

PHZ 6918 - Directed Research

College of Sciences

PHZ 6938 - Special Topics

College of Sciences

Political Science

POS 5917 - Directed Research

College of Sciences

POS 5937 - Special Topics

College of Sciences

POS 6045 - Seminar in American National Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Examines major aspects of the American system, including mass behavior, public opinion, and political institutions.

Fall

College of Sciences - Department of Political Science

POS 6079 - The Politics of Race, Ethnicity, Gender, and Class in the United States

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate program or C.I.

Examines the political consequences of race, ethnicity, gender, and class in the US.

Even Spring

College of Sciences - School of Politics, Security and International Affairs

POS 6174 - Seminar in Southern Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Will provide an overview of the political and social changes that have occurred in the American South in the post-World War II period.

Occasional

College of Sciences - Department of Political Science

POS 6207 - Political Behavior

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status.

A review of theory and findings in regard to mass political behavior, including participation, voter choice, public opinion, collective action, and communication.

Occasional

College of Sciences - Department of Political Science

POS 6403 - Teaching American Political Institutions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Post bac or graduate status.

Seminar will equip students with essential knowledge of American politics and explore technologies for transferal of this knowledge into the secondary and college level classroom.

Occasional

College of Sciences - Department of Political Science

POS 6415 - The American Presidency**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Presidency research with attention to historical, personal, institutional, and political development.

Occasional

College of Sciences - Department of Political Science

POS 6427 - Congress and the Legislative Process**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examination of Congress as a dynamic institution with emphasis on general legislative procedures, legislator recruitment, institutional rules, legislative norms, and the committee system.

Even Fall

College of Sciences - Department of Political Science

POS 6639 - Seminar in Public Law and Judicial Politics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate or post bac status.

This course is intended to acquaint students broadly with the scholarly literature in the subfield of Public law. It surveys the meaning of the field and its development, using books and articles to illustrate the major research and teaching concentrations in the subfield.

Occasional

College of Sciences - Department of Political Science

POS 6686 - National Security Law

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Domestic and international law affecting national security, with emphasis on branches' competing legal claims of authority and law affecting modern security challenges.

Occasional

College of Sciences - Department of Political Science

POS 6729 - Political Network Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or consent of instructor.

Introduces concepts, analytic metrics and methods, and empirical applications in political network analysis.

Occasional

College of Sciences - School of Politics, Security and International Affairs

POS 6736 - Conduct of Political Inquiry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to graduate program or C.I.

Research design and quantitative and qualitative analysis in political science.

Fall

College of Sciences - Department of Political Science

POS 6743 - Geographic Tools for Political Science Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Provides an introduction to the theoretical assumptions, analytical possibilities and application of geographic tools of analysis for political science research.

Odd Spring

College of Sciences - Department of Political Science

POS 6746 - Quantitative Methods in Political Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Methods of model building and research design, including conceptualization and measurement of political variables; techniques of data collection and quantitative analysis and computer usage.

Occasional

College of Sciences - Department of Political Science

POS 6747 - Advanced Topics in Quantitative Political Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the graduate program.

Successful completion of POS 6746, or equivalent, or C.I. Advanced topics in quantitative political analysis, including OLS variants, regression problems, time series, limited dependent variables and SPSS.

Occasional

College of Sciences - Department of Political Science

POS 6757 - Survey Design for Political Science Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Survey methods and survey design, including survey experiment techniques, used in political science.

Occasional

College of Sciences - School of Politics, Security and International Affairs

POS 6909 - Research Report

College of Sciences

POS 6918 - Directed Research

College of Sciences

POS 6938 - Special Topics/Political Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course title covers all political analysis special topics courses which are not listed in the catalog with a course number. May be repeated for credit only when course content is different.

Occasional

College of Sciences - Department of Political Science

POS 6949 - Cooperative Education in Political Science

College of Sciences

POS 7267 - Professional Development: The Practice of Security Studies

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Security Studies Ph.D. program or C.I.

Addresses ethics in security studies and prepares students for careers in the security sector, including topics such as ethics in decision making.

Even Spring

College of Sciences - Department of Political Science

POS 7707 - Advanced Qualitative Methods in Political Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Security Studies Ph.D. or C.I.

Advanced qualitative methods employed in political science research, including case studies, the logic of comparison, and archival and interview-based research.

Odd Spring

College of Sciences - Department of Political Science

POS 7745 - Advanced Quantitative Methods in Political Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Security Studies Ph.D. or C.I.

Survey of advanced quantitative methods used in political science research, including problems in regression analysis and nonlinear models.

Even Spring

College of Sciences - Department of Political Science

POS 7930 - Professional Development: Academic Careers in Security Studies

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Security Studies Ph.D. program or C.I.

Prepares students for teaching, submission of articles to peer-reviewed journals, grant writing, ethics in the discipline, and other questions related to an academic career.

Odd Spring

College of Sciences - Department of Political Science

Political Theory

POT 5917 - Directed Research

College of Sciences

POT 5937 - Special Topics

College of Sciences

POT 6007 - Seminar in Political Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

An examination of analytic and normative theories of politics and society, using selected topics as a substantive focus.

Occasional

College of Sciences - Department of Political Science

POT 6909 - Research Report

College of Sciences

POT 6918 - Directed Research

College of Sciences

POT 6938 - Special Topics

College of Sciences

Process Biology (Cell/Molecular/etc.)

PCB 5025 - Molecular and Cellular Pharmacology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, PCB 3522.

The cellular and molecular events that lead to disease states and the molecular basis of agents that modulate these processes will be covered.

Spring

College of Medicine - Department of Molecular and Microbiology

PCB 5235 - Molecular Immunology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MCB 3020C or equivalent.

Fundamental functions of the human immune system, focusing on cellular and molecular aspects of the innate and adaptive immune response.

Fall

College of Medicine - Department of Molecular and Microbiology

PCB 5236 - Cancer Biology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 4524 and graduate standing.

Current knowledge and research on molecular mechanism of tumor development, tumor progression, metastasis and therapy of cancer.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 5238 - Immunobiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 3233 , PCB 4280.

Advanced topics in immune system dysregulation with special emphasis on innate immunity.

Spring

College of Medicine - Department of Molecular and Microbiology

PCB 5265 - Stem Cell Biology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

Introduction to embryonic and adult stem cells, procedures to isolate them, principles and applications of stem cells in animal and human diseases.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 5275 - Signal Transduction Mechanics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 3522 and PCB 4524.

A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 5326C - Ecosystems of Florida

5 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM In Conservation Biology, or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation.

Material and Supply Fee: \$15.00 *Occasional*

College of Sciences - Department of Biology

PCB 5362C - Wetland Ecology and Biogeochemistry

4 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 4

Prerequisite(s): Graduate standing in the Department of Biology or C.I.

Examination of wetland ecosystems, laws and policy, current research, global biogeochemical cycles, and relevant field and laboratory techniques.

Even Spring

College of Sciences - Department of Biology

PCB 5416 - Sensory Ecology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

How and why animals acquire, process and use information from their environment, and how sensory systems influence evolutionary processes.

Odd Spring, Even Spring

College of Sciences - Department of Biology

PCB 5435C - Marine Ecology of Florida

4 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 6

Contact Hours: 8

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, PSM in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature.

Odd Spring

College of Sciences - Department of Biology

PCB 5447 - Disease Ecology and Ecoimmunology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A grade of B (3.0) or better in Genetics (PCB 3063 or equivalent) and Ecology (PCB 3044 or equivalent), or C.I., or graduate standing. Examination of how hosts, parasites and environment interact to shape organisms, populations and communities.

College of Sciences - Department of Biology

PCB 5469 - GIS for Biologists and Ecologists

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 6

Contact Hours: 3

Prerequisite(s): Graduate standing in the Dept. of Biology, or C.I.

Investigates how GIS is currently being used to better understand and address environment problems and to help manage and conserve natural resources.

Odd Fall, Even Fall

College of Sciences - Department of Biology

PCB 5527 - Genetic Engineering and Biotechnology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 3522 and PCB 4524 or C.I.

Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems, Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth.

Fall

College of Medicine - Department of Molecular and Microbiology

PCB 5596 - Biomedical Informatics: Sequence Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 3522 or equivalent or C.I.

Introduction of useful bioinformatics tools and resources on sequence analysis.

Fall

College of Medicine - Department of Molecular and Microbiology

PCB 5688 - Wildlife Genomics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate student in Biology MS or Conservation Biology PhD

Understanding of how Genomic methods are applied to problems in wildlife biology, with an emphasis on vertebrate animal species in terrestrial and marine ecosystems.

Odd Fall

College of Sciences - Department of Biology

PCB 5709C - Laboratory Virtual Simulations in Physiology

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 2

Contact Hours: 3

Corequisite(s): PCB 5834C

Advanced Human Physiology. Conduct experiments in physiology that enhance the ability to design, collect, analyze data and report results in a scientific manner.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 5815 - Molecular Aspects of Obesity, Diabetes and Metabolism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 3522 or BCH 4053 or BSC 6432.

Biochemical, molecular and physiological aspects of obesity, diabetes and metabolic diseases and how scientific findings can be translated towards prevention and treatment.

Odd Spring

College of Medicine - Department of Molecular and Microbiology

PCB 5834C - Advanced Human Physiology

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Graduate standing or C.I.

Designed to provide graduate students advanced knowledge of physiological processes at the cellular, molecular and system levels.

Fall

College of Medicine - Department of Molecular and Microbiology

PCB 5837 - Cellular and Molecular Neuroscience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. An advanced and thorough course providing understanding of the cellular components and molecular signaling pathways involved in the nervous system function.

Spring

College of Medicine - Department of Molecular and Microbiology

PCB 5838 - Cellular and Molecular Basis of Brain Functions**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Designed to provide graduate students the concepts required to understand the physiological basis of brain functions at the molecular, cellular and system levels.

Fall

College of Medicine - Department of Molecular and Microbiology

PCB 5917 - Directed Research

College of Sciences

PCB 5935 - Population Genetics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Population genetics and the study of the various forces that result in evolutionary changes through time.

Even Fall

College of Sciences - Department of Biology

PCB 5937 - ST: Advanced Inferences in Conservation Biology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): PCB 6466 or Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

An Introduction to fundamental concepts of processing high-dimensional data in an applied conservation biology context. The course includes lectures, discussions, and computer lab modules.

Spring

College of Sciences - Department of Biology

PCB 6041 - Ecological Modeling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 6466, or C.I.

Mathematical models used in ecology and offers tools for process-based model development in ecology.

Even Spring

College of Sciences - Department of Biology

PCB 6042 - Conservation Biology Theory

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Graduate standing in Biology or C.I. Review and analysis of the literature of conservation biology.

College of Sciences - Department of Biology

PCB 6046 - Advanced Ecology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Biology, admission to Certificate in Conservation Biology, or C.I.

Population and community ecology with emphasis on growth, regulation, species interactions, succession, and community classification.

Occasional

College of Sciences - Department of Biology

PCB 6047 - Advances in Plant Ecological Research

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Current methodological and conceptual developments in plant ecological research. Examination of newly published and on-going research through presentations and group discussions. Graded S/U. May be used in the degree program a maximum of 2 times.

Occasional

College of Sciences - Department of Biology

PCB 6053C - Restoration Ecology

4 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Survey of the general ecological principles that guide restoration ecology: the process of assisting the recovery of degraded, damaged or destroyed ecosystems.

Material and Supply Fee: \$70.00 *Spring*

College of Sciences - Department of Biology

PCB 6095 - Professional Development in Biology I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Methods in experimental design, research, and the ethics of animal research.

Occasional

College of Sciences - Department of Biology

PCB 6096 - Professional Development in Biology II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Preparation and presentation of research grants, scientific presentations, and scientific papers.

Occasional

College of Sciences - Department of Biology

PCB 6124 - Structure Bioinformatics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PCB 5596 or equivalent.

Focus on tools and resources in RNA and protein structure analyses.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 6328C - Landscape Ecology**4 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, PSM in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Influence of spatial heterogeneity on ecological processes. Emphasizes quantitative methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics.

M&S fee \$15.00 *Occasional*

College of Sciences - Department of Biology

PCB 6409 - Global Change Biology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Examination of global climate change science applied to biological systems. Topics include physical basis, physiological and evolutionary responses, range shifts, biogeochemical cycles, disturbance, uncertainty, and effective communication.

Odd Spring

College of Sciences - Department of Biology

PCB 6466 - Methods in Experimental Ecology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. An introduction to methods of population ecology. Experimental design, statistics, experimental variables and treatments and measurements of organisms and the environment.

Fall

College of Sciences - Department of Biology

PCB 6468 - Methods in Experimental Ecology II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

PCB 6466 Methods in Experimental Ecology. Strengthen student's ability to collect, organize and interpret ecological data. Confronts concepts in experimental design, execution and analysis as a tool to improve ecological research.

Even Spring

College of Sciences - Department of Biology

PCB 6480C - Quantitative Conservation Biology

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 3

Prerequisite(s): C.I.

Data analysis & modeling to evaluate population dynamics, basic training in programming & statistical procedures of population analysis of different modeling approaches, uses & limitations.

Occasional

College of Sciences - Department of Biology

PCB 6528 - Plant Molecular Biology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

PCB 4524 or C.I. Structure and function of plant genomes, genes, gene products and experimental approaches for genetic engineering for production of edible vaccines, antibodies or other pharmaceuticals.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 6556 - Conservation Genetics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the M.S. In Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Applications of genetic models to the understanding and conservation of animal and

plant populations.
Odd Spring

College of Sciences - Department of Biology

PCB 6595 - Regulation of Gene Expression

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Advanced course in molecular biology of BSC 6407C.

Concepts of molecular biology focusing on major areas in transcriptional and translational processes.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 6655 - Advanced Invertebrate Genetics

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): PCB 3063 or equivalent, graduate standing.

Literature based discussion of recent developments in classical and molecular genetics of invertebrates. May be used in the degree program a maximum of 3 times.

Fall, Spring

College of Sciences - Department of Biology

PCB 6675C - Evolutionary Biology

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Review of modern concepts and theories in evolutionary biology with emphasis on readings in the primary literature.

Even Fall

College of Sciences - Department of Biology

PCB 6677 - Molecular Evolution and Phylogenetics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Advanced understanding of evolution at the molecular level based on phylogenetic analysis of changes in DNA, RNA and protein.

Odd Fall

College of Sciences - Department of Biology

PCB 6909 - Research Report

College of Sciences

PCB 6918 - Directed Research

College of Sciences

PCB 6930 - Current Topics in Ecology

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Graduate standing or C.I.

Research on current ecological topics will be added. The instructor will assign readings on a weekly basis. Students will lead discussion. Graded S/U. May be repeated for credit.

Occasional

College of Sciences - Department of Biology

PCB 6935 - Advanced Topics in Cardiovascular Science

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Graduate standing.

Cutting-edge research in cardiovascular science is presented with emphasis on molecular mechanisms of cardiac development, vascular inflammation, oxidative stress, and neural regulation of the cardiovascular system.

Occasional

College of Medicine - Department of Molecular and Microbiology

PCB 6938 - Special Topics

College of Sciences

PCB 6939 - Topics in Genomics

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

PCB 3063. Review current literature in Genomics, one of the fastest growing fields in Biology.

Occasional

College of Sciences - Department of Biology

PCB 7049C - Conservation Biology Practice**4 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Prerequisite(s): Acceptance into the Conservation Biology Ph.D. program.

Case studies and evaluation of local and regional conservation issues from a biological perspective.

Material and Supply Fee: \$70.00 *Spring*

College of Sciences - Department of Biology

PCB 7919 - Doctoral Research

College of Sciences

Psychobiology**PSB 5005 - Physiological Psychology****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PSB 3002 and graduate status or senior standing or C.I.

An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

Occasional

College of Sciences - Department of Psychology

PSB 5917 - Directed Research

College of Sciences

PSB 5937 - Special Topics

College of Sciences

PSB 6328 - Psychophysiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing, or C.I. Anatomy and function of the nervous system, use of psychophysiological recording methods, and design of studies exploring the biological bases and indicators of behavior.

Spring

College of Sciences - Department of Psychology

PSB 6348 - The Neuroanatomical Basis of Psychological Function

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing, or C.I. Fundamental human neuroscience course that includes thorough review of neuroanatomy and physiology at cellular, anatomical and functional region levels in the context of psychological function.

Fall

College of Sciences - Department of Psychology

PSB 6352 - Neuroimaging Design and Analysis Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Overview and hands-on practice in design of neuroimaging studies and analysis of neuroimaging data.

Spring

College of Sciences - Department of Psychology

PSB 6909 - Research Report

College of Sciences

PSB 6918 - Directed Research

College of Sciences

PSB 6938 - Special Topics

College of Sciences

PSB 7349 - Advanced Topics in Cognitive Neuroscience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing, or C.I. In-depth study of the neural substrates underlying cognitive processing (e.g., attention, memory, language) and the linkage between the brain and behavior.

Fall

College of Sciences - Department of Psychology

Psychology

IDS 6267 - Understanding Humans for Modeling and Simulation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Human cognition, the human perceptual system, ergonomics, and how humans and computing systems can connect through the process of user-centered design and analysis.

Spring

College of Graduate Studies - Department of Interdisciplinary Studies

PSY 5917 - Directed Research

College of Sciences

PSY 5937 - Special Topics

College of Sciences

PSY 6216C - Research Methodology

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Admission to Industrial Organizational Psychology M.S., Clinical Psychology M.A., or Clinical Psychology M.S., or C.I.

Logic and procedures of psychological research and evaluation; application of experimental and non-experimental techniques in analyzing psychological variables; review of relevant psychological research.

Occasional

College of Sciences - Department of Psychology

PSY 6308C - Psychological Testing

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Admission to Industrial Organizational Psychology M.S. or C.I.
Theory of test construction, including test reliability and validity.

Occasional

College of Sciences - Department of Psychology

PSY 6918 - Directed Research

var Credit Hours

Contact Hours: 0

Prerequisite(s): Graduate standing and C.I.
Directed Research.

Occasional

College of Sciences - Department of Psychology

PSY 6949 - Cooperative Education in Psychology

College of Sciences

PSY 6971 - Thesis

College of Sciences - Department of Psychology

PSY 7217C - Advanced Research Methodology I

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): Admission to Psychology Ph.D. or C.I.

Logic and procedures of psychological research and evaluation; application of experimental and non-experimental techniques in analyzing psychological variables; review of relevant psychological research.

Occasional

College of Sciences - Department of Psychology

PSY 7218C - Advanced Research Methodology II

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): PSY 7217C or C.I.

Structure and planning of complex psychological experiments; internal and external validity; application of advanced experimental procedures in analyzing psychological variables; review of relevant psychological research.

Occasional

College of Sciences - Department of Psychology

PSY 7219C - Advanced Research Methodology III

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): PSY 7217C and PSY 7218C, or C.I.

Application of research design and statistical problems to selected human factors, industrial and/or clinical settings.

Occasional

College of Sciences - Department of Psychology

PSY 7315 - Psychometric Theory and Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PSY 6216C and graduate admission.

The construction, evaluation, and use of psychological measures; classical test theory, views of reliability, and item analysis; validity; generalizability theory; item response theory.

Spring

College of Sciences - Department of Psychology

PSY 7919 - Research

College of Sciences

Public Administration

PAD 5041 - Ethics and Values in Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Examination of ethics in the public sector. Public concerns, past patterns, and individual/social aspects of ethical behavior are explored.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 5145 - Volunteerism in Nonprofit Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Nonprofit Management degree, Nonprofit certificate or C.I.

Volunteer development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 5146 - Nonprofit Resource Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Nonprofit Management, Certificate in Nonprofit Management, Certificate in Fundraising or C.I. Examines human resource development and financial resource development in nonprofit organizations including management issues.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 5185 - Foundations of Social Justice for Public Service

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate standing.

The course provides an overview and foundation for understanding the roots of some of today's most complex public management social problems.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 5186 - Policy Advocacy for Social Justice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate standing.

Community-based policy advocacy seeks to strengthen group solidarity to promote change. Policy analysis and interpersonal skills to mobilize groups and communities are examined.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 5336 - Introduction to Urban Planning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Emergency Management and Homeland Security, or Certificate in Urban and Regional Planning, or C. I. Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning.

Fall

College of Community Innovation and Education - School of Public Administration

PAD 5337 - Urban Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Urban and Regional Planning, or C. I. Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design.

Fall

College of Community Innovation and Education - School of Public Administration

PAD 5338 - Land Use and Planning Law

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Emergency Management and Homeland Security, or Certificate in Urban and Regional Planning, or C. I. Review of national and local aspects of the legal underpinnings of urban planning aspects such as zoning, growth management, and environmental regulation.

Spring

College of Community Innovation and Education - School of Public Administration

PAD 5356 - Managing Community and Economic Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Emergency Management and Homeland Security, or Certificate in Urban and Regional Planning, or C. I. Overview of economic development activities focusing on policy and managerial issues at the local level.

Spring

College of Community Innovation and Education - School of Public Administration

PAD 5425 - Dispute Resolution in the Public Sector

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 5807 - Local Government Operations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Operational Functions of municipal and county governments and the role of the chief executive officer.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 5850 - Grant and Contract Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Master of Nonprofit Management, or Master of Research Administration, Certificate in Nonprofit Management, Certificate in Emergency Management and Homeland Security, Certificate in Public Administration, or Certificate in Fundraising, or C.I.

Study of government or public nonprofit agency grant and contract administration and management responding to funding assistance solicitations and grant and contract preparation, evaluation, and presentation.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 5855 - Introduction to Public Procurement

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Public Administration, or Master of Nonprofit Management, or C. I. Acquisition of knowledge and skills relating to the public procurement process.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 5887 - Energy Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate Student or C.I.

This course will address the history and future of energy technology trajectories, and the interaction of policy, economics, politics, and institutions on these developments. Particular emphasis will be on clean energy and air pollution policies in the US, but this course will also review transportation, environmental, and resource policies along with international agreements and fossil-based sources of energy.

Odd Fall, Even Fall, Odd Spring, Even Spring, Odd Summer, Even Summer

College of Community Innovation and Education - School of Public Administration

PAD 5917 - Directed Research

College of Community Innovation and Education

PAD 5930 - Global Cities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Master student in the School of Public Administration.

The course seeks to understand the interdependencies that define living conditions for residents in the world's interconnected global cities. Monetary, material, energy, vehicle and information flows continuously transform the city's built environment, livability, employment opportunities, and cultural practices. Sustainability, resilience to environmental changes, social cohesion, effective governance and innovation are key desirable outcomes for global city residents.

Fall, Spring, Summer

College of Community Innovation and Education - School of Public Administration

PAD 5937 - Special Topics

College of Community Innovation and Education

PAD 6035 - Public Administration in the Policy Process

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Public Administration, or Master of Science in Urban and Regional Planning, or Certificate in Public Administration, or Certificate in Police Leadership, or C. I. Analysis of the role of the public administrator in the analysis, formulation, implementation, and evaluation of public policies, especially at the state and local levels.

Fall, Spring, Summer

College of Community Innovation and Education - School of Public Administration

PAD 6036 - Change Management in Public Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Human and political dimensions of change within public organizations; applications of strategic management, budgeting, organizational culture, public policy and performance to organizational change.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6037 - Public Organization Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to the Master of Public Administration, or Certificate in Public Administration, or Certificate in Emergency Management and Homeland Security, or Certificate in Police Leadership, or C. I. Structure, functioning, performance of public organizations; behavior of individuals and groups; application for public management, includes both macro and micro approaches to organizational behavior.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6053 - Public Administrators in the Governance Process

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Public Administration, or Master of Science in Urban and Regional Planning, or Certificate in Public Administration, or C. I. An examination of the political, social, economic, and moral context of modern public administration, with special attention to the ethical dimensions of the administrator's role.

Fall, Spring, Summer

College of Community Innovation and Education - School of Public Administration

PAD 6062 - Advanced Concepts and Applications in Public Administration**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PAD 6035, PAD 6037, PAD 6053, PAD 6227, PAD 6417 and PAD 6701 or C.I.

An integrative course applying the skills, knowledge, and values considered in the program to selected public problems.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6086 - Advanced Concepts and Applications in Emergency and Crisis Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): All core courses in Master of Emergency and Crisis Management.

Combines knowledge and skills gained and applies them in an integrative manner to challenges facing emergency managers today. Provides a foundation to be an effective leader in emergency management.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6142 - Nonprofit Organizations**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Certificate in Nonprofit Management, or Certificate in Fundraising, or Certificate in Emergency Management and Homeland Security, or C.I. Synthesis of best practices and research literature in nonprofit organization management. Instruction method is simulation where students act as nonprofit organization Board Members developing policies and procedures.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6149 - Nonprofit Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master in Nonprofit Management or Graduate Certificate and PAD 5145, PAD 5146, PAD 6142, PAD 6208 and PAD 6335 or C.I.

Provides an overview of nonprofit leadership and board development, focusing on the ethical, legal and administrative responsibilities of those individuals responsible for nonprofit management.

Fall, Spring, Summer

College of Community Innovation and Education - School of Public Administration

PAD 6167 - Graduate Nonprofit Leadership Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Nonprofit Management or Nonprofit certificate program and C.I.

Discussion and activity-based course exploring nonprofit competencies to prepare students for management and leadership positions in human services.

Odd Fall

College of Community Innovation and Education - School of Public Administration

PAD 6200 - International Emergency and Crisis Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Master student in the School of Public Administration.

This course will engage students to the world of *crises*, *disasters*, and *emergencies*. They devastate, injure, and kill, wherever they occur, but when they strike the least among us, the devastation, the injuries, and the fatalities increase exponentially. Students are expected to complete the course with a well-defined mental map – a map that will guide your understanding of new crises, disasters, and emergencies as they increase in frequency and intensity around the world. We want you to be both *engaged* and *thoughtful* observers and participants in the WORLD of emergency management.

Every Semester

College of Community Innovation and Education - School of Public Administration

PAD 6207 - Public Financial Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PAD 6227 and PAD 6700, or C.I.

Survey of financial management functions in local government, such as accounting, fund structures, debt and case management, and financial reporting.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6208 - Nonprofit Financial Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Nonprofit Management, or Certificate in Nonprofit Management, or Certificate in Fundraising or C.I. Financial management in nonprofit organizations, including nonprofit funding, budgeting policies and procedures, orientation of department managers to budgeting, estimating income and expenses, and ethical implications of budgeting and finance.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6227 - Public Budgeting**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Public Administration, or Master of Emergency and Crisis Management, or Certificate in Public Administration, or Certificate in Public Budgeting, or C.I. and PAD 6700.

A political and rational examination of the government budgetary process and document to better understand their managerial, policy, planning, and communication functions.

Odd Fall, Even Fall, Odd Spring, Even Spring, Odd Summer

College of Community Innovation and Education - School of Public Administration

PAD 6234 - Public Capital and Debt**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Budgeting and Finance Graduate Certificate or any graduate degree program in the School of Public Administration or C.I. Financial economic theories and financial management techniques to solve complex financing problems in securities markets; development of innovative financing techniques.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6235 - Fundraising as a Profession

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Nonprofit Management, or Master of Public Administration, or Certificate in Fundraising, or C. I. Examines principles involved in fundraising profession including current trends and best practices utilized by professional fundraisers. Topics include donor research, psychology of giving and volunteer involvement.

Spring

College of Community Innovation and Education - School of Public Administration

PAD 6236 - Philanthropy and Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

A historic overview of philanthropy focusing on voluntary action for public good, for moral action, and as a foundation of democracy.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6237 - Ethics and Governance in Nonprofit Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Nonprofit Management, or Fundraising Certificate. Ethical competence in public service leadership in the nonprofit sector, ethical decision making, creation of a culture of ethics through leadership, stewardship, and governance.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6238 - Revenue Policy and Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Graduate Certificate in Public Budgeting and Finance or any School of Public Administration graduate degree program or C.I. Political and economic aspects of tax administration, tax policy and fundamentals of tax legislations with emphasis on state and local government.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6254 - Economics of Land Use Planning and Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Links basic growth and economic theory with applied challenges resulting from planning and development. Provides understanding of economic consequences of private market decisions on land use and development.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6260 - Fundamentals of Public Sector Accounting

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Budgeting and Finance Graduate Certificate or any graduate degree program in the School of Public Administration or C.I. Emphasizes municipal entity fund accounting; development and use of financial statements, transaction evaluation, accounting rules and procedures.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6307 - Public Policy Analysis and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Public Administration, or Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Certificate in Public Administration, or C.I. Program analysis and organization structure as policy tools, examining the implementation of differential policy and the administrator as policy maker and change agent.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6316 - Planning Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Encompasses two fundamental types of analyses in planning - population and economic analysis for localities and regions. Content covers data collection, analytical methods and techniques of report presentation for population and economic analysis.

Fall

College of Community Innovation and Education - School of Public Administration

PAD 6327 - Public Program Evaluation Techniques**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Master of Research Administration, or Certificate in Public Administration, or Certificate in Police Leadership, or C.I.

Techniques and skills utilized in the evaluation of public programs.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6335 - Strategic Planning and Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Public Administration and PAD 6700, or Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Master of Research Administration, or Certificate in Nonprofit Management, or Certificate in Fundraising, or Certificate in Public Administration, or C.I.

An examination and analysis of planning, goal setting, and strategic management in public sector organizations.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6339 - Housing Development and Planning**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Metropolitan and regional planning course with primary focus on familiarizing students with housing planning and development in communities.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6353 - Environmental Planning and Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Underlying concepts, approaches and critical issues in the field of environmental planning and management. Environmental planning processes will be examined from various political/ geographical scales and within a policy content.

Spring

College of Community Innovation and Education - School of Public Administration

PAD 6355 - Growth Management Approaches and Techniques

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Regional and metropolitan planning course that focuses on how growth management works in communities.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6357 - Urban Resilience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Master student in the School of Public Administration.

This course will examine a range of issues associated with understanding urban resilience from community, environment, infrastructure, security, to planning, and assessment aspects. Specific topics will include urban resilience and resilient communities, urban resilience, urban vulnerability, disaster resilience, resilience policy and practice, adaptive planning and hazard mitigation, urban resilience assessment, climate change adaptation, infrastructure interdependency and security, disaster recovery and housing recovery, and interdisciplinary research in urban resilience.

Every Semester

College of Community Innovation and Education - School of Public Administration

PAD 6387 - Transportation Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. An examination of the process of public policy formulation and implementation in the field of transportation.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6397 - Managing Emergencies and Crises**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Analyzes and integrates the basic crisis management steps: hazard mitigation, disaster preparedness, disaster response, and recovery --building analytical and practical skills necessary to perform effectively in homeland security/emergency management-related positions.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6398 - Hazard Analysis and Disaster Planning**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing; School of Public Administration Major.

Examines geospatial aspects of hazards analysis and planning with reference to disaster preparedness, recovery, mitigation, and resilience.

occasional

College of Community Innovation and Education - School of Public Administration

PAD 6399 - Foundations of Emergency Management and Homeland Security**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Analyzes the policy and organizational design issues confronting managers of emergency management and homeland security programs by: examining the natural and manmade threats; by analysis of the network of actors - national, state, local, and private; and by assessing the policy, plans, and procedures at governmental and community levels.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6417 - Human Resource Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Public Administration, or Master of Nonprofit Management, or Master of Research Administration, or Certificate in Public Administration, or Certificate in Corrections Leadership, or C. I. Administrator as manager and motivator of public employees with particular emphasis on organizational behavior and contemporary public service legislation.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6439 - Leadership in Public Service

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to School of Public Administration graduate degree programs. Importance of sound public leadership and development of analytical skills to recognize and resolve critical public management issues.

Fall

College of Community Innovation and Education - School of Public Administration

PAD 6616 - Economic Principles for Public Policy and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Graduate Certificate in Public Budgeting or Master of Public Administration. Economic concepts, relationships, and methods of analysis that are relevant for public sector management decisions and policy analysis; usefulness of economic analysis in Public Sector decision making.

Fall, Spring, Summer

College of Community Innovation and Education - School of Public Administration

PAD 6700 - Research Methods in Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Public Administration program or C.I.
Statistical methodology and use of computers as a tool for decision making in the public sector.
Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6701 - Analytical Techniques for Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PAD 6700 or C.I.

Applied analytical tools for administrators in the public sector. Practical use of computers in policy and decision making.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6705 - Public Sector Communications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Administration or Nonprofit Management master's programs. Recognizing stakeholders and their needs; focusing on communications specific to reputation management, branding and marketing strategies in keeping with regulatory standards.

Spring

College of Community Innovation and Education - School of Public Administration

PAD 6716 - Information Systems for Public Managers and Planners

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Use of systems concept, software and computers in contemporary public sector management and planning information systems.

Fall, Spring

College of Community Innovation and Education - School of Public Administration

PAD 6717 - Visualization and Presentation Workshop for Urban Planners

PAD 6741 - Research Integrity for Research Administrators

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program.

This course provides an overview of research integrity from the perspective of those in the field of research administration.

Summer

College of Community Innovation and Education - School of Public Administration

PAD 6742 - Introduction to Research Administration**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

Overview of research administration including history, roles and relationships, partnership, purpose and core value of research and research organizational types.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6743 - Leadership and Organization Models in Research Administration**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

General management concepts in preparation for leadership roles in Research Administration, the tools of managerial decision-making and team building, and acquaints students with theories and principles of research and development organizations.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6744 - Financial Management in Research Administration**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

Overview of financial management in research administration to establish an understanding of the complex financial management and reporting environment.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6745 - Contracting for Sponsored Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

Overview of the contracting mechanisms that are relevant to sponsored program management, including federal regulations; policy-, business- and risk-based decisions impacting sponsored program contracting.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6746 - Intellectual Property, Technology Transfer and Commercialization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

Role of research administration in technology transfer and commercialization of new innovations, including intellectual property relating to copyright, patents and trademarks.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6747 - Audits in Research Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.

Overview of financial and non-financial audit process for research contracts and grants. Includes audit process, types of audits and do's and don'ts when an organization is audited.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6748 - Governance and Regulatory Issues for Sponsored Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Research Administration program or C.I.
Provides an overview of the governing and regulatory structure for which research organizations must comply and operate to administer and manage research projects and programs.

Fall

College of Community Innovation and Education - School of Public Administration

PAD 6825 - Cross-Sectoral Governance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Examines the structures, dynamics and processes associated with developing and delivering public services through networks and partnerships involving public, nonprofit, voluntary and private sectors.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6826 - Urban Policy and Regional Governance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate student in School of Public Administration.

This course explores conceptual, analytical and applied aspects of regional governance to achieve more effective local economic, environmental and social policy outcomes.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 6829 - Network Analysis in Public Policy and Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Public Administration graduate student. Advance understanding and appreciation of design and evaluation of public policy and management networks.

Spring

College of Community Innovation and Education - School of Public Administration

PAD 6836 - Comparative Global Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or C.I.

Public Administration at the national level, to include political system, policy structure, institutional frameworks, institutional capacity and level of technology.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6847 - Planning Healthy Communities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Addresses impact of community design on health and provision of health care to the population. Includes land use patterns, transportation, water/air quality, sanitation, mental health, provision of health care services and social capital in maintaining health.

Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 6848 - Policy Analysis Capstone

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Students must complete majority of the MPP core before enrolling in Capstone.

Provide environment in which students integrate, synthesize, and apply knowledge, skills, and perspectives acquired in MPP curriculum to real world public policy and management problem.

Spring

College of Community Innovation and Education - School of Public Administration

PAD 6909 - Research Report

College of Community Innovation and Education

PAD 6918 - Directed Research

College of Community Innovation and Education

PAD 6920 - Visualization and Presentation Workshop for Urban Planners

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate standing, PAD 5337, and PAD 6716.

Introduction to methods for observing, interpreting, representing, and transforming the urban environment. Through various lenses, our surroundings can be understood and expressed within a professional practice framework.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Public Administration

PAD 6934 - Special Issues in Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Substantive and theoretical issues confronting the broad spectrum of contemporary public administration. May be repeated for credit only when course content is different.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 6938 - Special Topics

College of Community Innovation and Education

PAD 6946 - Internship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Public Administration, or Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Certificate in Fundraising, or Certificate in Emergency Management and Homeland Security, and consent of Internship Director.

Fall, Spring, Summer

College of Community Innovation and Education - School of Public Administration

PAD 6949 - Cooperative Education in Public Administration

College of Community Innovation and Education

PAD 7006 - Intellectual History of Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to PhD in Public Administration program.

Exposure to intellectual historical background using foundational readings in public administration theory, to include research design foundations, and critical thinking about theory and practice.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Public Administration

PAD 7016 - Public Policy Processes and Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to Public Administration PhD Program.

Analysis of public policy aspects with an empirical focus rather than normative, although both important components of policy processes. The focus will be policymaking in the U.S.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7026 - Advanced Seminar in Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

Discuss emerging issues in public administration research using current journal articles and exemplary research in areas such as public management.

Occasional

College of Community Innovation and Education - School of Public Administration

PAD 7057 - Advanced Public Management

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program.

Examines the literature and practice in public organization management focusing on empirical findings and theoretical discussion in critical areas of public management and administration.

Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7106 - Public Organization Theory and Behavior

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to PhD in Public Administration Program.

This doctoral seminar is designed for Ph.D. students to study the theory and behavior of public organizations. It examines classic and latest literature and discusses key topics such as motivation, team and groups, organizational structure, decision making, economics of organizations, and networks. The course should guide students to develop a focused area of study prior to their dissertations.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7308 - Advanced Public Policy Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to PhD in Public Administration program.

This doctoral seminar exposes Ph.D. students to study the theory, practice, and methods of public policy analysis. It examines topics of rational policy choice, economics of public policy, policy evaluation theory and practice, and methods for impact evaluation. The course will also explore policy analysis in areas of students' specialties and interests and illustrate how researchers have applied the theoretical models and empirical methods to policy issues and public programs.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7317 - Program Design and Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

Analysis of community-based advanced organizational design and development theories and management techniques utilized in designing and developing public and nonprofit programs.

Even Summer

College of Community Innovation and Education - School of Public Administration

PAD 7701 - Quantitative Methods for Public Administration & Policy I**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to PhD in Public Administration; PAD 7706.

Using probability theory, students will develop robust regression models (including time, heteroscedasticity, serial correlation, and complete regression diagnostics) with computer-based statistical software.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7706 - Advanced Research Design for Public Administration and Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to PhD in Public Administration program.

Students will use scientific inquiry to design and critically evaluate research methodologies. Topics include: causality, validity, reliability, conceptualization, operationalization, measurement, sampling theory, experimentation, and ethics.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7707 - Advanced Research in Public Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

Integration of knowledge and research skills gained through the doctoral program with integrative application to the most current issues in the field of public administration.

Odd Spring

College of Community Innovation and Education - School of Public Administration

PAD 7709 - Advanced Qualitative Methods for Public Administration and Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission in Public Administration PhD program; PAD 7706.

Students will identify, gather, analyze, and report various kinds of qualitative data using observation, interviews, case studies, visual methodologies, narrative analysis, grounded theory, and action research.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7756 - Quantitative Methods for Public Administration and Policy II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Admission to PhD in Public Administration; PAD 7706; PAD 7701.

Students will test multivariate analytic models using continuous and categorical dependent variables, and master techniques for correcting models that violate statistical assumptions.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Community Innovation and Education - School of Public Administration

PAD 7827 - Network Governance**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

Analysis of theory, skills and processes of designing, developing, evaluating and managing networks in a public policy and management setting with emphasis on building capacity across organization and sectoral boundaries.

Odd Spring

College of Community Innovation and Education - School of Public Administration

PAD 7919 - Directed Research

College of Community Innovation and Education

PAD 7939 - Special Topics

College of Community Innovation and Education

Public Affairs**PAF 6720 - Graduate Seminar in Global Health and Public Affairs Research****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Global Health Graduate Certificate or C.I. Interdisciplinary seminar on global health and public affairs.

Impacts of science and technology, health, education, welfare and environmental policy on globalization will be examined from a comparative perspective.

Fall

College of Community Innovation and Education - Dean's Office

PAF 7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. Program or C.I.

Provides an overview of public affairs and is taught from an interdisciplinary perspective focused on the necessary components to effectively address community-based problems.

Fall

College of Community Innovation and Education - Dean's Office

PAF 7055 - Seminar in State and Local Government Policy Research**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

State and local governments explored from a comparative perspective. Focusing upon similarities and differences between states with implications for state and local policy.

Even Spring

College of Community Innovation and Education - Dean's Office

PAF 7230 - Strategic Change and Management for Public Affairs**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

Course deals with change in: organizations, governance relationships and communities. The course uses a "tools" approach.

Spring

College of Community Innovation and Education - Dean's Office

PAF 7317 - Social Inquiry and Public Policy**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Affairs Ph.D. or C.I. Course examines the philosophical foundations of social inquiry and the importance of theory in public policy and evaluation research.

Fall

College of Community Innovation and Education - Dean's Office

PAF 7325 - Policy and Program Evaluation for Public Affairs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. PAF 7802 and PAF 7804, or C.I.

Course is designed to use empirical information to assess the effectiveness of policies and programs in public and nonprofit settings.

Fall

College of Community Innovation and Education - Dean's Office

PAF 7510 - Seminar in Policy Evaluation and Performance Measurement

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. Program or C.I.

Applies quantitative methods to policy evaluation and performance measurement, particularly related to national and global policy changes for human development and growth.

Odd Fall

College of Community Innovation and Education - School of Public Administration

PAF 7757 - Seminar in Global Governance and Policy Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

Comparative analysis in Public Affairs from global perspective examining and comparing U.S. Public Affairs and International Global areas.

Occasional

College of Community Innovation and Education - School of Public Administration

PAF 7802 - Advanced Research Methodology for Public Affairs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Affairs Ph.D. program or C.I. Course focuses on the nature and process of scientific inquiries including specific methods for conducting social science research in a community setting.

Fall

College of Community Innovation and Education - Dean's Office

PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Affairs Ph.D. Program or C.I. An advanced statistical course that efficiently and effectively perform multivariate modeling and analyze multivariate statistical data to address critical issues in public affairs.
Spring

College of Community Innovation and Education - Dean's Office

PAF 7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program, PAF 7802 and PAF 7804 or C.I.
Introduction to an array of statistical modeling techniques for different types of data and research designs. Coverage of theory and application of each technique.
Fall

College of Community Innovation and Education - Dean's Office

PAF 7820 - Qualitative Methods for Public Affairs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program and PAF 7802 and PAF 7804, or C.I.
Course is an overview of qualitative research methods and their application in interdisciplinary and mixed methods community-based public affairs research.
Fall

College of Community Innovation and Education - Dean's Office

PAF 7856 - Applications of Structural Equation Modeling in Public Affairs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Affairs Ph.D. program or C.I. Course introduces advanced methods that include causal thinking,

predictor tree analysis, propensity source matching and analysis, latent growth curve modeling and multilevel modeling.

Spring

College of Community Innovation and Education - Dean's Office

PAF 7858 - Advanced Seminar in Governance and Policy Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PAF 7000, PAF 7300 , PAF 7806 or C.I.

Integrates theoretical and methodological applications to public policy analysis, particularly related to environmental, science and technological, health and welfare impacts.

Odd Spring

College of Community Innovation and Education - Dean's Office

PAF 7868 - Public Affairs Mixed Methods Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. and PAF 7805 Advanced Stats for Public Affairs II or C.I.

Develops advanced expertise in research methods skills which can include mixed methods, statistics skills, geographic information analysis, research syntheses, meta-analyses, and/or economic analysis such as cost effectiveness analysis.

Material and Supply Fee: \$44.00 *Spring*

College of Community Innovation and Education - Dean's Office

PAF 7925 - Symposium on Public Affairs Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs program or C.I.

Issues and trends impacting the four subject areas in the U.S. Public Affairs along with the inter-disciplinary characteristics of the respective cognate areas will be explored.

College of Community Innovation and Education - Dean's Office

PAF 7947 - Public Affairs Community-Based Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. and PAF 7000, PAF 7802, PAF 7804, PAF 7317, PAF 7820, PAF 7325, PAF 7805 or C.I.

This course provides students an experiential engagement working with interdisciplinary teams and community partners to conduct and report on a community-engaged research study.

Fall, Spring

College of Community Innovation and Education - Dean's Office

PAF 7981 - Dissertation Prospectus Seminar in Public Affairs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Public Affairs Ph.D. program and C.I. Train and guide students as they begin the dissertation prospectus process. Includes planning the study, conducting the literature review, developing the research questions and choosing theories and methods.

College of Community Innovation and Education - Dean's Office

Public Health Concentration

PHC 5917 - Directed Research

College of Health Professions and Sciences

PHC 5937 - Special Topics

College of Health Professions and Sciences

PHC 6000 - Epidemiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Health Services Administration graduate program or C.I.

A study of the distribution and determination of diseases and injuries in human populations.

Summer

College of Community Innovation and Education - Department of Health Management and Informatics

PHC 6003 - Epidemiology of Chronic Diseases

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.
Selected topics in chronic disease with critical analysis of the current epidemiologic literature is covered; opportunity to study methodological issues, contemporary findings and future direction of research.
College of Health Professions and Sciences - Department of Health Sciences

PHC 6010 - Quantitative Methods in Epidemiology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MS Health Sciences graduate program and PHC 6000.
Principles of managerial epidemiology, quantitative methods, application of prostatistics, use of personal computers to handle data and solve problems.

Occasional

College of Health Professions and Sciences - Department of Health Sciences

PHC 6020 - Introduction to Clinical Trials

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences M.S.
Clinical and Lifestyle Sciences track or C.I. An overview of clinical trials theory and design characteristics provides the background necessary to conduct single center and multi-center studies.

Spring

College of Health Professions and Sciences - Department of Health Sciences

PHC 6146 - Health Planning and Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Services Administration graduate program or C.I.
Review of the determinants of the revolution of the health care system in the United States; analysis of public health, preventive medicine, and therapeutic medicine in terms of quality, access, and cost; methodologies and issues in comprehensive health planning; and trends in health policy development.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

PHC 6160 - Health Care Finance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): HSA 5177 or passing score on finance assessment exam.

The identification of resources available to health care institutions, allocation of resources, and control of resource expenditures.

Fall

College of Community Innovation and Education - Department of Health Management and Informatics

PHC 6164 - Health Care Finance II**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): PHC 6160.

Course facilitates the development of strategic financial plans and its application to current health care management issues.

Occasional

College of Community Innovation and Education - Department of Health Management and Informatics

PHC 6183 - Health Care Emergency Management**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Broad overview of topics related specifically to how the health care industry addresses issues associated with disasters and emergencies.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

PHC 6411 - Health and Society**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Understanding health and illness as defined by patients, providers, and other persons in the social system.

Occasional

College of Health Professions and Sciences - Department of Health Sciences

PHC 6420 - Case Studies in Health Law

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Health Services Administration graduate program or C.I.

Health law including patient care, liability, malpractice, workmen's compensation, and legal responsibilities of health personnel.

Spring

College of Community Innovation and Education - Department of Health Management and Informatics

PHC 6706 - Introduction to Clinical Research**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

This course offers an introductory overview to clinical research. Course content focuses on key concepts beginning with an overview of the conception of research question.

Spring

College of Health Professions and Sciences - Department of Health Sciences

PHC 6909 - Research Report

College of Health Professions and Sciences

PHC 6918 - Directed Research

College of Health Professions and Sciences

PHC 6938 - Special Topics

College of Health Professions and Sciences

Public Policy**PUP 5917 - Directed Research**

College of Sciences

PUP 5937 - Special Topics

College of Sciences

PUP 6208 - Environmental Politics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to a graduate degree-seeking program or C.I.

Examines the political ideas and practices which have shaped environmental politics and practices in the U.S.

Occasional

College of Sciences - Department of Political Science

PUP 6247 - Contemporary Issues in Environmental Politics**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

A detailed examination of recent developments in one or more areas of environmental politics. Topics may include land and water regulation and pollution control.

Occasional

College of Sciences - Department of Political Science

PUP 6324 - Women and Public Policy**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing. Analyzes U.S. public policies with differential impact on women, including policies regarding employment, family, health, reproduction and sexuality. Strong theoretical emphasis.

Occasional

College of Sciences - Department of Political Science

PUP 6607 - Politics of Health**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate or post bac status.

Analysis of public health policies, primary focus upon political processes, policy makers, and interest groups. Comparative health practices.

Occasional

College of Sciences - School of Politics, Security and International Affairs

PUP 6909 - Research Report

College of Sciences

PUP 6918 - Directed Research

College of Sciences

PUP 6938 - Special Topics/Public Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to graduate program or C.I. This course title covers all public policy special topics courses which are not listed in the catalog with a course number. May be repeated for credit only when course content is different.

Occasional

College of Sciences - Department of Political Science

Public Relations

PUR 5917 - Directed Research

Nicholson School of Communication and Media

PUR 5937 - Special Topics

Nicholson School of Communication and Media

PUR 6005 - Theories of Public Relations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Communication M.A. program or C.I.

Focus on theories of public relations with implications for communications practices in corporate and other organizations and government agencies.

Occasional

Nicholson School of Communication and Media - Department of Communication

PUR 6215 - Communicating Corporate Social Responsibility

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Graduate standing or C.I. Communication processes required for developing, implementing, publicizing, and evaluating corporate social responsibility program in organizations.

Occasional

Nicholson School of Communication and Media - Department of Communication

PUR 6403 - Crisis Public Relations

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): C.I.

The course examines the management of crisis situations from a PR perspective, as well as how to manage issues to prevent them from becoming crises.

Occasional

Nicholson School of Communication and Media - Department of Communication

PUR 6405 - Communication and Public Relations in Politics and Government

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

COM 6008 or C.I. Role of professional and practical public relations communication skills and knowledge in contemporary politics and government.

Fall

Nicholson School of Communication and Media - Department of Communication

PUR 6918 - DIRECTED INDIVIDUAL Research IN PUBLIC RELATIONS

Nicholson School of Communication and Media

Quantitative Methods in Business

QMB 5917 - Directed Research

College of Business Administration

QMB 5937 - Special Topics

College of Business Administration

QMB 6010 - Mathematical Tools for Business Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into a graduate business program of study.

Introduction to the most used mathematical tools in business analytics, specifically, different and integral calculus as well as linear algebra.

Occasional

College of Business Administration - Department of Management

QMB 6303 - Probability and Statistics for Business Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MSM Business Analytics program.

Introduction to the main tools of probability and statistics used in business analytics.

Occasional

College of Business Administration - Department of Management

QMB 6358 - Software Tools for Business Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the MSM Business Analytics program.

Introduction to the main software tools used in business analytics, specifically, Python, R, and SQLite as well as UNIX.

Occasional

College of Business Administration - Department of Management

QMB 6909 - Research Report

College of Business Administration

QMB 6912 - Capstone Project in Business Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the MSM Business Analytics program, successful completion of all required courses in the program, permission of instructor.

Integration of all the tools developed in the program to solve an empirical problem.

Occasional

College of Business Administration - Department of Management

QMB 6918 - Directed Research

College of Business Administration

QMB 6938 - Special Topics

College of Business Administration

QMB 7567 - Measurement Theory in Business Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Business Administration Ph.D. program. This course provides doctoral students with a foundation in psychometrics and general measurement theory for economic, psychological and sociological-based business research.

College of Business Administration - Dean's Office - College of Business Administration

QMB 7919 - Research

College of Business Administration

QMB 7939 - Special Topics

College of Business Administration

Reading Education

RED 5147 - Developmental Reading

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Principles, procedures, organization, and current practices in the elementary reading program.

Materials and methods of instruction.

College of Community Innovation and Education - School of Teacher Education

RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): RED 5147 or equivalent.

Classroom diagnosis and corrective teaching in reading; instructional materials. Case study required.

Even Fall, Spring

College of Community Innovation and Education - School of Teacher Education

RED 5917 - Directed Research

College of Community Innovation and Education

RED 5937 - Special Topics

College of Community Innovation and Education

RED 5948 - Practicum in Reading Assessment and Instruction**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 5517.

Practicum that requires application of reading assessment and instruction in order to increase reading proficiency of struggling readers. Concurrent K-12 field experiences required.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

RED 6116 - Advanced Study in Foundations of Reading**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 5147 or C.I.

Historical development and current research-based practice related to language and cognitive foundations of reading components: phonemic awareness, phonics, vocabulary, fluency, comprehension, investigation of research.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

RED 6336 - Teaching Content Area and Disciplinary Literacy**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate or C.I.

Differentiation of and strategies for content area reading and disciplinary literacy instruction for K-12 readers; focus on print and digital texts.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Teacher Education

RED 6337 - Reading in the Secondary School

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 6336, Basic Teacher Certification, or C.I.

Motivation and engagement of the adolescent reader. Strategies for differentiation to support all proficient and non-proficient adolescent readers.

Odd Fall, Even Fall

College of Community Innovation and Education - School of Teacher Education

RED 6746 - Literacy Leadership and Coaching

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 5517 or C.I.

Collaboration with stakeholders to plan, implement, and supervise reading programs in K-12 settings, including data mining and professional development. Exploration of coaching models and facilitation of a school-wide literate environment.

Odd Spring, Even Spring

College of Community Innovation and Education - School of Teacher Education

RED 6845 - Advanced Evaluation and Instruction in Reading

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 5517 or C.I.

Administration and interpretation of formal and informal evaluation techniques. Instructional strategies (including multisensory and motivation) contributing to reading achievement at classroom and individual level. Emphasis on parent involvement.

Odd Spring, Even Spring

College of Community Innovation and Education - School of Teacher Education

RED 6846 - Reading Practicum

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 0

Prerequisite(s): RED 6845 or C.I.

Evaluation and instructional practices for the individualization of reading instruction in a supervised clinical setting. Development of personalized instructional plan and parent communication.

Odd Summer, Even Summer

College of Community Innovation and Education - School of Teacher Education

RED 6909 - Research Report

College of Community Innovation and Education

RED 6918 - Directed Research

College of Community Innovation and Education

RED 6938 - Special Topics

College of Community Innovation and Education

RED 6946 - Practicum, Clinical Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

College of Community Innovation and Education - School of Teacher Education

RED 7648 - Analysis and Evaluation of Trends and Issues in Literacy Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 7797.

Critical analysis and evaluation of trends and issues in literacy education: research, policy, and instruction.

Even Summer

College of Community Innovation and Education - School of Teacher Education

RED 7697 - Literacy for the Twenty-First Century

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 6116, RED 7797, RED 7648.

Investigates changing role of literacy in a technology-based world; explores issues of literacy in an increasingly diverse world.

Spring

College of Community Innovation and Education - School of Teacher Education

RED 7743 - Reading and Writing Processes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 5147 or equivalent.

Investigates reading and writing as interrelated processes; focuses on research that shapes reading and writing instruction in the U.S.

Spring

College of Community Innovation and Education - School of Teacher Education

RED 7745 - Research in Reading Education Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 5147 or equivalent; RED 6116.

The study of the reading research process and the design of a research proposal in the reading education field.

Even Fall

College of Community Innovation and Education - School of Teacher Education

RED 7797 - Theoretical Processes of Reading Comprehension

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): RED 5147 or equivalent.

Investigates theoretical processes and factors related to comprehension. Studies relevant issues and research.

Fall

College of Community Innovation and Education - School of Teacher Education

RED 7919 - Doctoral Research

College of Community Innovation and Education

RED 7947 - Internship in Reading Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PhD in Education--Reading Education Track.

College teaching of reading education courses under supervision of reading education faculty mentor.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

Real Estate

REE 5917 - Directed Research

College of Business Administration

REE 5937 - Special Topics

College of Business Administration

REE 6006 - Real Estate Markets and Institutions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into the MS Real Estate program.

Overview of the core real estate concepts, property fundamentals, and the role of various institutions in real estate transactions and operations.

Occasional

College of Business Administration - Department of Finance

REE 6147 - Real Estate Market Analysis and Appraisal

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): FIN 6406, acceptance into the MS Real Estate program.

An applied introduction to the major concepts, principles and methods used in appraising commercial real estate, performing market analysis, and basic economic analysis.

Occasional

College of Business Administration - Department of Finance

REE 6209 - Real Estate Finance and Investment Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): FIN 6406, acceptance into the MS Real Estate program.

Direct real estate investing in the apartment, office, industrial and retail sectors. Financing real estate transactions, real estate capital markets, and investment analysis.

Occasional

College of Business Administration - Department of Finance

REE 6380 - Financial Analysis of Real Estate Firms

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): FIN 6406.

Focus on advanced financial statement analysis and valuations for real estate firms.

N Occasional

College of Business Administration - Dr. P. Phillips School of Real Estate

REE 6418 - Real Estate Contracts and Negotiations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into the MS Real Estate Program.

The course covers various legal and ethical concepts applicable to the real estate industry including contracts, securities laws, construction management, negotiations, and entity structure.

Odd Spring

College of Business Administration - Dr. P. Phillips School of Real Estate

REE 6455 - Real Estate Law

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Acceptance into the MS Real Estate program.

Overview of the legal system and key laws affecting real estate. Emphasis on property rights, contracts, development law, theory of title, and commercial leases.

Occasional

College of Business Administration - Department of Finance

REE 6737 - Real Estate Development**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Must take in final term of the MS Real Estate program.

Capstone project course covering the real estate development process, regulatory considerations, financial and market feasibility, management control, and environmental aspects of real estate development.

Occasional

College of Business Administration - Department of Finance

REE 6909 - Research Report

College of Business Administration

REE 6918 - Directed Research

College of Business Administration

REE 6938 - Special Topics

College of Business Administration

REE 7935 - Seminar in Finance and Real Estate Research**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to business doctoral program and ECO 6416 or equivalent.

An introduction to doctoral-level topics in finance, real estate research; including land economics, spatial markets for real property, and the economics of property law.

Even Fall

College of Business Administration - Dr. P. Phillips School of Real Estate

REL 5937 - Special Topics

College of Arts and Humanities

Respiratory Care

RET 5917 - Directed Research

College of Community Innovation and Education

RET 5937 - Special Topics

College of Community Innovation and Education

RET 6909 - Research Report

College of Community Innovation and Education

RET 6918 - Directed Research

College of Community Innovation and Education

RET 6938 - Special Topics

College of Community Innovation and Education

RET 6949 - Cooperative Education in Respiratory Therapy

College of Community Innovation and Education

School Psychology

SPS 5605 - Building and Improving Relationship and Emotional Intelligence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Students will learn to develop and improve relational and emotional intelligence and demonstrate an understanding of social emotional learning and how it enhances psychosocial wellbeing.

Odd Spring, Odd Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 5917 - Directed Research

College of Community Innovation and Education

SPS 5937 - Special Topics

College of Community Innovation and Education

SPS 6125 - Preschool Psychoeducational Assessment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

Analysis of test theory and practice in administration, scoring, and interpretation of instruments assessing cognitive, visual-motor ability and adaptive behavior with preschool children.

Material and Supply Fee: \$25 *Spring*

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6175 - Cultural Diversity and Nonbiased Assessment

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

An investigation of some of the major multicultural issues with emphasis on administration, scoring, and interpretation of instruments related to this population.

Occasional

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6191 - Individual Psychoeducational Diagnosis I

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Graduate standing and C.I. Corequisite(s): SPS 6946L.

Measurement of students' achievement and cognitive functioning. Administration, scoring, and interpretation of contemporary iterations of achievement and processing measures used in school psychology.

Material and Supply Fee: \$20 *Spring*

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6192 - Individual Psychoeducational Diagnosis II

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Graduate admission and C.I. Corequisite(s): SPS 6946L.

Measurement of students' intellectual and cognitive functioning. Administration, scoring, and interpretation of contemporary iterations of IQ measures used in school psychology.

Material and Supply Fee: \$70 *Fall*

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6194 - Assessment of Special Needs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SPS 6191, SPS 6192.

Measurement of social, behavioral, and emotional functioning in children and adolescents.

Material and Supply Fee: \$25 *Occasional*

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6206 - Psychoeducational Interventions

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate admission and C.I.

This course will enable school psychology students to link psychoeducational assessment results to systematic, evidence-based psychoeducational interventions to improve student functioning.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6225 - Behavioral and Observational Analysis of Classroom Interactions in Schools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate admission.

An intensive review of the principles and procedures of applied behavioral and observational analysis and assessment as they relate to changing behavior in schools.

Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6402 - Applied Prevention and Intervention in Schools I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

C.I. Students will understand and apply behavioral prevention and intervention strategies in school and school-related settings.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6403 - Applied Prevention and Intervention in Schools II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing and C.I. Students will understand and apply academic prevention and intervention strategies in school and school-related settings.

Fall, Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6601 - Introduction to Psychological Services in Schools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Graduate admission and C.I.

A course presenting an overview of the philosophy, organization, programs, and operation of school psychological services.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6606 - Consultation in School Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

School Psychology theories and models of school consultation and clinical practice in the consultative role.

Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6608 - Seminar in School Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Diagnostic, instructional, and prescriptive intervention techniques.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

Principles of advanced psychoeducation for teaching, response to intervention, and data-based decision making in schools.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6801 - Developmental Bases of Diverse Behaviors

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate admission and C.I.

The major social and educational policy concerns posed by developmental and cultural diversity in our society, with implications for teaching, learning and intervention.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6815 - Legal and Ethical Issues in Professional School Counseling

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 5005 and MHS 6400.

Ethical and legal standards, their evolution, and application specific to professional school counseling will be presented in the form of case studies and ethical dilemmas.

Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6909 - Research Report

College of Community Innovation and Education

SPS 6918 - Directed Research

College of Community Innovation and Education

SPS 6931 - Ethical and Legal Issues in School Psychological Services

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and C.I.

Introduction to ethical codes, professional standards, ethical-legal decision-making models and case studies impacting the delivery of school psychological services.

Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6946L - Practicum in School Psychology

3 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): Graduate admission and C.I.

Provides each student with an orientation to public schools and experiences which broadly sample the spectrum of psychoeducational assessment and interventions for practicing school psychologists.

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SPS 6948 - School Psychology Internship

6 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 6

Contact Hours: 6

Prerequisite(s): Graduate standing and C.I.

Supervised placement in school setting. Graded S/U. May be used in the degree program a maximum of 6 times.

Fall, Spring, Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

Science Education

SCE 5325 - Teaching Middle School Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415, TSL 5085 or admission to MED program or Initial Teacher Professional Preparation certificate.

This course will provide experiences that promote effective science teaching in grades 5-9 including interdisciplinary teaming, technology use, ESOL, and inquiry in science.

Occasional

College of Community Innovation and Education - School of Teacher Education

SCE 5337 - Issues and Methods in Secondary School Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415, TSL 5085, or admission to MED program or Initial Teacher Professional Preparation certificate.

Secondary science education special methods course is designed to augment students' understanding of instructional methods and their applications to middle and high school science curriculum.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

SCE 5836 - Space and Physical Science for Educators

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Introduction to space and physical science, manned space flight, and space education curriculum.

Summer

College of Community Innovation and Education - School of Teacher Education

SCE 5917 - Directed Research

College of Community Innovation and Education

SCE 5937 - Special Topics

College of Community Innovation and Education

SCE 6315 - Methods in Elementary School Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDE 6933 or C.I.

Organization of instruction in elementary school science including methods, evaluation, materials, strategies, and current practices.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

SCE 6909 - Research Report

College of Community Innovation and Education

SCE 6918 - Directed Research

College of Community Innovation and Education

SCE 6938 - Special Topics

College of Community Innovation and Education

SCE 7145 - Design of Post Secondary Science Curriculum

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing, admission to the PhD or EdD Education programs, and C.I.

Successful completion of ESE 6217 or an approved equivalent. This course will examine issues of curriculum theory, research, and practice at the post-secondary level situated in science education.

Odd Fall

College of Community Innovation and Education - School of Teacher Education

SCE 7146 - Professional Issues in Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PhD in Education or C.I.

Students will study issues and forces that have shaped science education policies, classroom practices, ethics development, and professional identity.

College of Community Innovation and Education - School of Teacher Education

SCE 7242 - Assessment in Science Teaching, Learning and Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing, admission to the PhD or EdD Education programs, and C.I.

This course will examine current instruments/tools used in science assessment covering standardized science testing and authentic and performance-based science assessments.

Odd Fall

College of Community Innovation and Education - School of Teacher Education

SCE 7746 - Teaching Theory and Research in Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PhD in Education or C.I.

Course will provide students means to become familiar with trends and current status of research in science teaching and learning.

College of Community Innovation and Education - School of Teacher Education

SCE 7864 - Science Technology and Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PhD in Education or C.I.

The course is focused on the history of science in the U.S. with particular emphasis on institutional configurations that emerged in the period since nationhood.

College of Community Innovation and Education - School of Teacher Education

SCE 7935 - Seminar—Professional Writing/Grants in Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Ph.D. in Education or C.I.

The focus of the course is on scholarly writing and grant writing in science teaching, learning, assessment and relationships.

College of Community Innovation and Education - School of Teacher Education

SCE 7942 - Internship/Practicum in Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the PhD in Education or C.I.

The focus of this course is students' participation in current research projects in science/science education.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

SCE 7980 - Doctoral Dissertation**0-12 Credit Hours**

Class Hours: 0-12

Lab and Field Work Hours: 0

Contact Hours: 0-12

Prerequisite(s): Taken and passed comprehensive exam.

Approval of Education Ph.D SCE?track program coordinator. May be repeated for credit.

College of Community Innovation and Education - School of Teacher Education

Social Organization**SYO 5917 - Directed Research**

College of Sciences

SYO 5937 - Special Topics

College of Sciences

SYO 6256 - Inequality and Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Use sociological theories to explore the role of the educational system in reproducing inequality with regard to race, class, gender, language, health and disability.

Occasional

College of Sciences - Department of Sociology

SYO 6404 - Food Insecurity and Health**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, or C.I.

Seminar examining food insecurity and its impact on health outcomes using a sociological theoretical framework.

Occasional

College of Sciences - Department of Sociology

SYO 6405 - Sociology of Health and Illness

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Sociological models of health and illness.

Occasional

College of Sciences - Department of Sociology

SYO 6406 - Medical Sociology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Theory and research in medical sociology; systematic overview of salient sociological issues in health and medicine.

Occasional

College of Sciences - Department of Sociology

SYO 6409 - Social Inequalities in Health

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, or C.I.

Sociological approach to understanding how social inequalities leads to inequalities in health outcomes.

Occasional

College of Sciences - Department of Sociology

SYO 6515 - Issues in Social Disorganization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Sociological study and analysis of the manner in which American society is organized and the consequences of the way in which its cultural premises are arranged.

Occasional

College of Sciences - Department of Sociology

SYO 6909 - Research Report

College of Sciences

SYO 6918 - Directed Research

College of Sciences

SYO 6938 - Special Topics

College of Sciences

SYO 7919 - Research

College of Sciences

Social Processes

SYP 5005 - Sociological Social Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An exploration of sociological social psychological theories and their application in understanding the effects of society and groups on the individual.

Occasional

College of Sciences - Department of Sociology

SYP 5566 - Seminar on Domestic Violence: Theory, Research and Social Policy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

A sociological examination and evaluation of theories, empirical research and social policy related to the study of

domestic violence.

Occasional

College of Sciences - Department of Sociology

SYP 5917 - Directed Research

College of Sciences

SYP 5937 - Special Topics

College of Sciences

SYP 6515 - Deviant Behavior Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An examination and evaluation of the forms of social deviance, and the organizations designed to respond to them.

Occasional

College of Sciences - Department of Sociology

SYP 6517 - Topics in Crime and Deviance

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Seminar involving an in-depth examination of current topics relating to crime and deviance.

Occasional

College of Sciences - Department of Sociology

SYP 6518 - Guns, Crime and Violence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in sociology or related discipline or C.I.

Role of firearms in America: Guns in history; civilian gun ownership; guns, crime and criminals; and guns and public policy.

Occasional

College of Sciences - Department of Sociology

SYP 6522 - Sociological Perspectives on Victims

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An analytical examination of crime victims and victimology from a sociological perspective.

Occasional

College of Sciences - Department of Sociology

SYP 6524 - Social Organization of Homicide

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An in-depth analysis of the social and cultural context of homicide and of intervention strategies. The primary emphasis is on the contemporary U.S.

Occasional

College of Sciences - Department of Sociology

SYP 6546 - Crime, Law, Inequality

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing.

The consequences of social stratification on criminality and treatment/protection by the legal system. This course examines literature concerning inequality and the sociology of law.

Occasional

College of Sciences - Department of Sociology

SYP 6555 - Sociology of Alcohol and Drugs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in sociology or related fields or C.I.

Themes and research literatures in the sociology of alcohol and drug use, misuse and abuse and the social policy response.

Occasional

College of Sciences - Department of Sociology

SYP 6560 - Topics in Domestic Violence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Seminar involving an in-depth examination of current topics relating to domestic violence.

Occasional

College of Sciences - Department of Sociology

SYP 6561 - Child Abuse in Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

A sociological examination of literature and current research pertaining to child abuse and neglect.

Occasional

College of Sciences - Department of Sociology

SYP 6563 - Reactions to Domestic Violence

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The reactions by communities, victims, and professionals to domestic violence. Topics include examination of policies on domestic violence, and issues relating to race, class, and gender.

Occasional

College of Sciences - Department of Sociology

SYP 6735 - Sociology of Health and Aging

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Research-oriented seminar covering historical, present and future sociocultural perspectives of aging.

Occasional

College of Sciences - Department of Sociology

SYP 6909 - Research Report

College of Sciences

SYP 6918 - Directed Research

College of Sciences

SYP 6938 - Special Topics

College of Sciences

SYP 7919 - Research

College of Sciences

SYP 7939 - Special Topics

College of Sciences

SYP 7980 - Dissertation

College of Sciences

Social Psychology

SOP 5059 - Advanced Social Psychology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SOP 3004C, graduate status or senior standing, or C.I.

The major findings and theories in social psychology including an in-depth review of relevant research.

Occasional

College of Sciences - Department of Psychology

SOP 5917 - Directed Research

College of Sciences

SOP 5937 - Special Topics

College of Sciences

SOP 6909 - Research Report

College of Sciences

SOP 6918 - Directed Research

College of Sciences

SOP 6938 - Special Topics

College of Sciences

Social Studies Education

SSE 5391 - Global Education: Theory and Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examines the theoretical underpinnings of teaching about the world along with a variety of theoretically grounded teaching strategies for engaging students in global education.

Spring

College of Community Innovation and Education - Department of Learning Sciences and Educational Research

SSE 5776 - Democracy and Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Explores the intersection of theory and practice with regard to promoting democratic life in schools. Will examine competing theories of democracy and education, investigate problem areas in schools related to democracy, and consider examples of practice.

Fall

College of Community Innovation and Education - School of Teacher Education

SSE 5790 - Inquiry and Instructional Analysis in Social Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EDG 6415 or admission to Teacher Leadership MEd program or Initial Teacher Professional Preparation certificate.

Study of instructional programs in social science education and related scholarship; development of an inquiry about the intersection of theory and practice in social science teaching.

Summer

College of Community Innovation and Education - School of Teacher Education

SSE 5917 - Directed Research

College of Community Innovation and Education

SSE 5937 - Special Topics

College of Community Innovation and Education

SSE 6115 - Methods in Elementary School Social Science

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

SSE 6348 - Foundations and Fundamentals of Teaching History in the K-12 Classroom

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course examines empirical research and pedagogical approaches related to the teaching of history in the K-12 classroom environment.

Odd Fall

College of Community Innovation and Education - School of Teacher Education

SSE 6387 - Teaching with Film

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Selected strategies, trends, methods, materials, and legal issues for effectively incorporating film in the K-12 classroom. Selected topics include media literacy, film research, and making movies appropriate to educational settings.

Spring

College of Community Innovation and Education - School of Teacher Education

SSE 6388 - Digital History in the K-12 Classroom

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course looks at the concept of digital history and how this pedagogical approach can and should be applied in the K-12 social studies classroom environment.

Fall

College of Community Innovation and Education - School of Teacher Education

SSE 6396 - Teaching with Primary Sources in the History Classroom

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. This course focuses on the creation, teaching, and evaluation of history-specific, content-informed and effective instructional practices that integrate primary sources.

College of Community Innovation and Education - School of Teacher Education

SSE 6636 - Contemporary Social Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Basic Teacher Certificate of C.I.

A survey of recent developments and contemporary programs in all areas of the social sciences.

Occasional

College of Community Innovation and Education - School of Teacher Education

SSE 6909 - Research Report

College of Community Innovation and Education

SSE 6918 - Directed Research

College of Community Innovation and Education

SSE 6938 - Special Topics

College of Community Innovation and Education

SSE 7700 - Critical Issues in Social Studies Teacher Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

An examination of the relevant literature surrounding the research and practice of social studies teacher education. The course examines the major themes, ideas, perspectives, and programs.

Even Fall

College of Community Innovation and Education - School of Teacher Education

SSE 7740 - History of Social Studies Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Major themes, ideas, and personalities in the historical development of curriculum and instruction in social studies in the United States since 1880.

Odd Fall

College of Community Innovation and Education - School of Teacher Education

SSE 7796 - Research in Social Science Education Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Analysis and evaluation of scholarly research in social studies education.

Odd Spring

College of Community Innovation and Education - School of Teacher Education

SSE 7797 - Content and Program Analysis in Social Science Education

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Analysis of social science instructional programs including development of content, materials, processes, and assessment procedures in light of current research and practice.

Even Fall

College of Community Innovation and Education - School of Teacher Education

SSE 7947 - Internship in Social Science Education**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing.

Student teaching in a classroom under supervision of a certified classroom teacher. May be used in the degree program a maximum of 3 times.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

Social Work**SOW 5107 - Human Behavior in the Social Environment****3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to MSW program. Study of human development and psychosocial functioning of individuals, groups, families and communities with particular attention to implications of human diversity.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Social Work

SOW 5132 - Diverse Client Populations**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to MSW program. This course helps students think critically about mental health services by analyzing the factors that influence global behavioral health policies.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Social Work

SOW 5235 - Social Welfare Policies and Services

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 5305 - Social Work Practice I: Generalist Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 5306 - Social Work Practice II: Intervention Approaches

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 5404 - Social Work Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Study of group research designs in social work; quantitative analyses; and related ethical issues.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 5538 - Full-Time MSW Generalist Field Integrative Seminar I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Master of Social Work program or C.I. Corequisite(s): SOW 5305 and SOW 5940

Field education seminar for full-time MSW generalist students.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 5539 - Full-Time MSW Generalist Field Integrative Seminar II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): SOW 5538 Corequisite(s): SOW 5306 and SOW 5940

Field education seminar for full-time Master of Social Work generalist students.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 5565 - Part-Time MSW Generalist Field Integrative Seminar I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): SOW 5305 Corequisite(s): SOW 5306 and SOW 5940

Field education seminar course for part-time MSW generalist students.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 5566 - Part-Time MSW Generalist Field Integrative Seminar II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): SOW 5565 Corequisite(s): SOW 5940.

Field education seminar for part-time MSW generalist students.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 5567 - Part-Time MSW Generalist Field Integrative Seminar III

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): SOW 5566. Corequisite(s): SOW 5940

Field education seminar course for part-time MSW generalist students.

Summer

College of Health Professions and Sciences - School of Social Work

SOW 5917 - Directed Research

College of Health Professions and Sciences

SOW 5937 - Special Topics

College of Health Professions and Sciences

SOW 5940 - Generalist Field Education

VAR Credit Hours

Contact Hours: 0

Admission to MSW program. Field education for Master of Social Work generalist students; includes supervised practice of social work in an agency for 200 clock hours.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Social Work

SOW 6109 - Violence Against Women: A Global Perspective

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

An introduction to the types of violence imposed on women around the world. Social, political and economic issues related to women and violence are reviewed.

Summer

College of Health Professions and Sciences - School of Social Work

SOW 6123 - Psychosocial Pathology**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of all Master of Social Work core courses or advanced standing.

Study of psychosocial dynamics of dysfunctional behavior in individuals.

Summer

College of Health Professions and Sciences - School of Social Work

SOW 6149 - Military Culture and Social Work Practice**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Social Work program or C.I.

Provides a detailed overview of the practice of social work with these military connected clients, families, and communities.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Social Work

SOW 6155 - Human Sexuality in Social Work Practice**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Social Work program, Graduate Certificate in Gender Studies or C.I.

Study of human sexuality with emphasis on assessment and intervention skills for social workers with clients experiencing problems involving sexual issues.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6324 - Clinical Practice with Groups

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SOW 6123.

Group work theories, interventions and techniques applied to persons with emotional, social and psychological problems.

Fall, Spring

College of Health Professions and Sciences - School of Social Work

SOW 6348 - Clinical Practice with Individuals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SOW 6123.

Behavioral, crisis, and psychosocial theories applied to persons with emotional, social, and psychological problems.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 6383 - Social Work Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Social Work program or C.I. Designed as a general introduction to the multi-faceted nature of social work administration in public and private non-profit settings.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of all Master of Social Work core courses or advanced standing.

Theoretical perspectives including: Cognitive; Cognitive Behavioral; Feminist Therapy; Psycho-dynamic Therapy; Motivational Interviewing; Rational Emotive Behavioral Therapy; Solution-focused Therapy; and Narrative Therapy.

Summer

College of Health Professions and Sciences - School of Social Work

SOW 6433 - Clinical Evaluation in Social Work Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

SOW 5404. Students will learn to critically analyze and apply specific research designs and analytical methods for systematic evaluation of clinical interventions, services, and programs.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Social Work

SOW 6531 - Full Time MSW Clinical Field Integrative Seminar I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): SOW 6123 and SOW 6424. Corequisite(s): SOW 6940

Field education seminar for full-time Master of Social Work students.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 6536 - Full Time MSW Clinical Field Education and Seminar II

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): SOW 6531.

Field education for full-time Master of Social Work clinical students; includes seminar and supervised practice of social work in an agency for 300 clock hours.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): SOW 6123 and SOW 6424. Corequisite(s): SOW 6940

Field education seminar for part-time Master of Social Work students.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): SOW 6561. Corequisite(s): SOW 6940

Field seminar education for part time Master of Social Work clinical students.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): SOW 6562. Corequisite(s): SOW 6940

Field education seminar for part-time MSW clinical students.

Summer

College of Health Professions and Sciences - School of Social Work

SOW 6603 - Social Work in Health Settings

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Social Work program or C.I. Study of social work roles, interventions, and issues related to helping clients in health care settings.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6604 - Medications in Social Work Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Social Work program and SOW 6123, or C.I.

The study of the effects that psychotropic medications can have within the counseling/helping relationship.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SOW 6149.

Advances students' knowledge about the unique nature of trauma, PTSD and other mental health disorders as they relate to combat-exposed soldiers, veterans, their families and other military experiences.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 6610 - Clinical Practice with Military and Veteran Families or Groups

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SOW 6149.

Theoretical/practical approaches to clinical practice with military families and groups. Examines the demands of military service on family/group dynamic, composition and related issues.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 6612 - Clinical Practice with Families

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SOW 6123.

Family-focused models of intervention applied to families in transition and to problems such as divorce, single parenting, and blended families.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 6635 - Social Work Practice in Schools

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MSW program or Social Work Graduate Certificate or C.I.

Enhance clinical knowledge and skills that are essential to effective school based practice with students, teachers, families, schools and communities.

Summer

College of Health Professions and Sciences - School of Social Work

SOW 6644 - Interventions with Older Adults and Their Families

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Social Work program or C.I. Study of concepts, skills, models and theories for intervening with the elderly. Special attention is given to minority populations.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6652 - Child Welfare Services

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Social Work program or C.I.

Provides a framework of knowledge, values and skills necessary to work with maltreated children and their families. It also serves to introduce students to the field of Child Welfare (CW).

Spring

College of Health Professions and Sciences - School of Social Work

SOW 6655 - Child Abuse: Treatment and Prevention

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MSW degree or SW or Criminal Justice Certificate program.

Study of various forms of child abuse, the social worker's role and interventions with victims of child abuse and their family members.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6670 - Clinical Social Work Practice with LGBTQ+

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Social Work and SOW 6123 or C.I. Focus on Social Work resources, social policy and clinical assessment, diagnosis and therapeutic interventions of LGBTQ+ individuals, families, groups and communities.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6712 - Clinical Social Work Practice with Substance Addictions**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Social Work program, Juvenile Justice certificate, or Corrections Leadership certificate, or C.I. The most common substance addictions are identified along with current evidence-based practice strategies.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6713 - Prevention and Treatment of Adolescent Substance Use and Misuse**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Master of Social Work program or C.I.

Clinical application and analysis of prevention, intervention, treatment, recovery, relapse issues and public policy regarding adolescents with substance use addictions.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6726 - Social Work Practice with Children from Birth to Age Five and their Families**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Social Work practice and treatment of children from birth to five years of age and their families.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 6727 - Core Concepts of Child and Adolescent Trauma

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Trauma informed concepts applied to practice with children and adolescents.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Social Work

SOW 6735 - Documentation Skills for Helping Professionals

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MSW students, C.I.

Study of documentation skills and record keeping for helping professionals.

Odd Spring, Even Summer

College of Health Professions and Sciences - School of Social Work

SOW 6756 - Forensic Social Work

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MSW program or Social Work Certificate.

Course studies theories and practice of forensic social work focusing on roles, ethics, skills and functions.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6806 - Behavioral Health Skills for Clinical Social Workers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Social Work and SOW 6123. Provides comprehensive knowledge and skills for providing behavioral health interventions in medical and behavioral health settings.

Odd Summer

College of Health Professions and Sciences - School of Social Work

SOW 6846 - Spirituality in Clinical Social Work Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MSW or Social Work Certificate program.

Faith development theory, study of spirituality in various settings and development of strategies for use in practice designed to heighten sensitivity to spiritual dimensions of life.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 6909 - Research Report

College of Health Professions and Sciences

SOW 6918 - Directed Research

College of Health Professions and Sciences

SOW 6938 - Special Topics

College of Health Professions and Sciences

SOW 6940 - Clinical Field Education

VAR Credit Hours

Contact Hours: 0

Admission to MSW program. Field education for Master of Social Work students; includes supervised practice of social work in an agency for 300 clock hours.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Social Work

SOW 6949 - Cooperative Education in Social Work

College of Health Professions and Sciences

SOW 7215 - Advances in Behavioral Health Policy in the US and Abroad

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to DSW program or C.I.

Critical analysis of the historical foundations and evolution of public policy in the United States and abroad.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 7339 - Community Partnership and Leadership in Behavioral Health Organizations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the DSW Program or C.I.

Critical analysis of the field of community behavioral health practice, including community accountability, community behavioral health assessment, organizing, policy advocacy, and social services and social change leadership in behavioral health organizations.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 7421 - Data Management for Decision Making in Behavioral Health Social

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to DSW program or C.I.

Evaluates types and uses of primary and secondary data relevant to behavioral health decision making and applications of data management and presentation through the use of innovative computer technology.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 7444 - Program Evaluation in Behavioral Health Organization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Admission to DSW program or C.I.

Focuses on concepts, data, methods and dissemination of evaluation outcomes in behavioral health organizations that provide social work services.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 7450 - Grant Writing for Behavioral Health

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the DSW Program or C.I.

Advances knowledge and skills in grant writing for behavioral health program planning, service delivery, and intervention research.

Occasional

College of Health Professions and Sciences - School of Social Work

SOW 7492 - Theory Building in Social Work and Applied Social Science Disciplines**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

This advanced seminar in theory building will teach design, tools and methods used in social theory building.

Odd Fall

College of Health Professions and Sciences - School of Social Work

SOW 7494 - Conducting Evidence-based Practice Research in Social Work and Allied Fields**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Public Affairs Ph.D. program or C.I.

This is an advanced seminar in conducting evidence-based practice research. Analytical design and methods used in such research will be applied.

Even Spring

College of Health Professions and Sciences - School of Social Work

SOW 7910 - DSW Capstone II: Behavioral Health Leadership**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the DSW Program and Completion of DSW Capstone I or C.I.

A mentored research experience for students to complete a publishable article based on their completed review of evidence-based literature on a topic from Capstone I.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 7913 - DSW Capstone I: Behavioral Health Leadership

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s):

Admission to DSW Program or C.I.

Mentored research experience for students to consolidate the DSW curriculum by developing a systematic review of evidence-based literature applied to an area of behavioral health practice in the student's area of interest.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 7919 - Research

College of Health Professions and Sciences

SOW 7920 - Teaching Skills for Social Work Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the DSW Program or C.I.

Critically examines theory-based and evidence-based learning theory and employs experiential training using today's media and technology for teaching social work.

Fall

College of Health Professions and Sciences - School of Social Work

SOW 7935 - Innovations in Behavioral Health: Current Topics and Program Development Workshop

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to DSW Program or C.I.

Seminar on current topics in the field of behavioral health aimed at developing expertise in the design of programmatic responses to these emergent topics.

Spring

College of Health Professions and Sciences - School of Social Work

SOW 7939 - Special Topics

College of Health Professions and Sciences

SOW 7956 - Workshop in Dissemination of Behavioral Health Research and Scholarship

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the DSW Program or C.I.

Experiential practice in developing presentation and publishable works aimed at extrapolating from the literature state of the art theory informed evidence for advancing best practices in behavioral health management.

Spring

College of Health Professions and Sciences - School of Social Work

Sociological Analysis

SYA 5625 - ProSeminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Survey of conceptual issues, methodological concerns, and findings in substantive sociological areas that currently dominate scholarly inquiry, including such topics as crime, deviance, community, alcoholism, education.

Fall

College of Sciences - Department of Sociology

SYA 5917 - Directed Research

College of Sciences

SYA 5941 - Participatory Geographic Information Systems in Belize

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

The conceptual frameworks, methodologies, and applications of Participatory Geographic Information Systems and related geospatial technologies for use in the field.

Summer

College of Sciences - Department of Sociology

SYA 6126 - Social Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Regular graduate standing or C.I.

The study of selected sociological theories in terms of relevance, usefulness, and adequacy for applied sociology.

Spring

College of Sciences - Department of Sociology

SYA 6128 - Theoretical Criminology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

The study of selected sociological theories to develop student understanding of each theory and its application to the analysis of crime and criminal events.

Even Spring

College of Sciences - Department of Sociology

SYA 6305 - Social Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Regular graduate standing or C.I.

Research methodology including problem conceptualization, sampling designs, research proposals, data collection, and evaluation techniques for applied settings.

Fall

College of Sciences - Department of Sociology

SYA 6315 - Qualitative Research Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing.

Examination of qualitative research methods, how and when they are employed, and processes of analyzing field observation, oral histories, and in depth interviews.

Occasional

College of Sciences - Department of Sociology

SYA 6356 - Geographic Information Systems in Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. The art and science of GIS and related geospatial technologies across the social and environmental sciences.

Spring

College of Sciences - Department of Sociology

SYA 6425 - Design and Conduct of Social Surveys

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Advanced social survey research methods, including sampling theory and applications, measurement, data collection modalities, questionnaire construction, and data reduction strategies.

Occasional

College of Sciences - Department of Sociology

SYA 6452 - GIS Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

SYA 6455 or C.I. The concepts and implementations of the geographic information analysis and integrate GIS with real-world applications.

Spring

College of Sciences - Department of Sociology

SYA 6455 - Research Analysis

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): SYA 6305, undergraduate statistics, regular graduate standing, or C.I.
Data management, selection of statistics, data analysis, evaluation, data presentation, and computer skills.
Spring

College of Sciences - Department of Sociology

SYA 6458 - Advanced Topics in Geographic Information Systems in Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Focuses on advanced special topics in Geographic Information Systems related to the technology's use in and impact on society.

Odd Spring

College of Sciences - Department of Sociology

SYA 6657 - Program Design and Evaluation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SYA 6305 and SYA 6455 or C.I.

Techniques of system and policy assessment, evaluation, and design. Determination of consequences and implications of policies and practices in applied settings.

Spring

College of Sciences - Department of Sociology

SYA 6660 - Seminar in Teaching Sociology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Pedagogical theories and Practices for sociologists.

Occasional

College of Sciences - Department of Sociology

SYA 6909 - Research Report

College of Sciences

SYA 6918 - Directed Research

College of Sciences

SYA 6933 - Topics in Sociological Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. In-depth examination of a particular area of sociological theory, emphasizing major developments, current uses, implications for research, and overall impact on the field.

Occasional

College of Sciences - Department of Sociology

SYA 6938 - Special Topics

College of Sciences

SYA 7019 - Advanced Sociological Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SYA 6126 and doctoral standing or C.I.

Research seminar in sociological theory.

Fall

College of Sciences - Department of Sociology

SYA 7309 - Advanced Sociological Research Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SYA 6305 and doctoral standing or C.I.

Applied research, incorporating aspects of project design, budgeting, grants and contracts, methodological techniques, report writing, and ethical issues.

Fall

College of Sciences - Department of Sociology

SYA 7407 - Advanced Data Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SYA 6305 and SYA 6455 and doctoral standing or C.I.
Multivariate statistical techniques and the development of computer skills.

Spring

College of Sciences - Department of Sociology

SYA 7457 - Topics in Data Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SYA 7407 and doctoral standing or C.I.
Application of multivariate statistical techniques.

Occasional

College of Sciences - Department of Sociology

SYA 7658 - Social Policy and Research Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.
Sociological perspectives on creation, development, implementation, and consequences of social policy.

Fall

College of Sciences - Department of Sociology

SYA 7919 - Research

College of Sciences

Sociology: Demography/Area Studies/Minorities**SYD 5917 - Directed Research**

College of Sciences

SYD 5937 - Special Topics

College of Sciences

SYD 6363 - Social Inequalities and Reproductive Health

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Sociological investigation of inequalities in reproductive health. Focuses on how inequalities (race, class, gender, sexuality), institutions and ideologies shape reproductive options, experiences and outcomes.

Occasional

College of Sciences - Department of Sociology

SYD 6417 - Contemporary Urban Sociology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Contemporary issues in urban sociology.

Occasional

College of Sciences - Department of Sociology

SYD 6428 - Poverty, Homelessness and the Cities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in sociology or related discipline or C.I.

Poverty, homelessness and their impact on American cities in the 21st century.

Occasional

College of Sciences - Department of Sociology

SYD 6538 - Topics in Social Inequalities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examines cutting-edge research in an area of social inequalities, with an emphasis on how social inequalities are created and maintained in contemporary society. May be used in the degree program a maximum of 3 times.

Occasional

College of Sciences - Department of Sociology

SYD 6705 - Seminar in Race and Ethnicity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Sociology or C.I.

A sociological examination of the experiences of racial and ethnic groups in the United States.

Occasional

College of Sciences - Department of Sociology

SYD 6795 - Class, Race, and Gender in American Society

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Applies a sociological perspective to analyze how individuals, groups and institutions are shaped by privilege and disadvantaged based on gender, race and class.

Odd Spring

College of Sciences - Department of Sociology

SYD 6809 - Seminar in Gender Issues

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing in Sociology or C.I.

Using theoretical and empirical studies, this course will provide a sociological examination of gender issues that influence relationships between women and men.

Occasional

College of Sciences - Department of Sociology

SYD 6909 - Research Report

College of Sciences

SYD 6918 - Directed Research

College of Sciences

SYD 6938 - Special Topics

College of Sciences

SYD 7919 - Research

College of Sciences

Sociology: General

SYG 7980 - Doctoral Dissertation

VAR Credit Hours

Class Hours: VAR

Lab and Field Work Hours: VAR

Contact Hours: VAR

Prerequisite(s): Candidacy status.

Doctoral dissertation. May be repeated for credit.

Fall, Spring, Summer

College of Sciences - Department of Sociology

SYO 6175 - Social Research in the Family

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

To offer an overview of current research in the family. The family will be viewed from the institutional level, individual social system, and individual level.

Occasional

College of Sciences - Department of Sociology

Spanish Language

SPN 5502 - Hispanic Culture of the United States

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

An analysis of the Hispanic culture of the United States, past and present.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 5505 - Spanish Peninsular Culture and Civilization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

An analysis of the salient characteristics of Spanish culture and civilization.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 5506 - Spanish American Culture and Civilization

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

An analysis of the salient characteristics of Spanish American culture and civilization.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 5705 - Bilingualism in the US

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Explores issues of Spanish and English bilingualism in the US to understand sociolinguistic and sociopolitical issues in developing the Hispanic/Latinx experience.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 5825 - Spanish Dialectology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

This course is a survey of the diversity found within the Spanish language with respect to phonological constraints, morphosyntax, second language influences, and historical development.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 5845 - History of the Spanish Language

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

An overview of linguistic characteristics of Latin and its evolution into Spanish with historical development of phonetic, morphological, and syntactic properties.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 5848 - Romance Linguistics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Evolution of Classical Latin into other modern Romance languages from the perspective of (1) phonology, (2) morphology, (3) syntax and (4) lexis.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 5917 - Directed Research

College of Arts and Humanities

SPN 5937 - Special Topics

College of Arts and Humanities

SPN 6805 - Spanish Morphosyntax

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Introduction to generative grammar, concentrating on X' theory, phrase structure, theta-roles, binding theory, A'-movement, clitics and functional projections, applied to Spanish morphology and syntax.

Odd Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

SPN 6908 - Independent Study

College of Arts and Humanities

SPN 6909 - Research Report

College of Arts and Humanities

SPN 6918 - Directed Research

College of Arts and Humanities

SPN 6940 - Teaching Methods for the Spanish Classroom

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Practical training for educators and future educators who teach Spanish, including strategies, methodologies, and design approaches to promote a culturally diverse teaching and learning environment.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

Spanish Literature (Writings)

SPW 5741 - Contemporary Spanish American Southern Cone Literature

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Enrolled in Spanish M.A. Program or C.I.

Regional as well as international literary cultures and disciplines in southern cone literature.

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 5917 - Directed Research

College of Arts and Humanities

SPW 5937 - Special Topics

College of Arts and Humanities

SPW 6216 - Spanish Golden Age Prose and Poetry

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into Spanish M.A. program.

Outstanding authors of the Spanish Renaissance and Spanish Baroque periods.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6217 - Spanish American Prose I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. A study of the principal characteristics of Spanish American prose from Colonial times to post-independence.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6218 - Spanish American Prose II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of the principal characteristics of Spanish American prose from modernism to the present.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6269 - Nineteenth Century Spanish Novel

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of the major writers and literary movements of the 19th century with emphasis on the novels of Valera, Perez Galdos, Clarin and Pardo Bazan.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6306 - Spanish American Drama

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into Spanish M.A. program.

Critically recognized Spanish American Theater texts and pre-Hispanic theatrical works.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6315 - Early Modern Spanish Theatre**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

Intensive reading and analysis of selected theatrical works of Early Modern Spain.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6356 - Spanish American Poetry**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. A study of the different movements and their contribution to Spanish American poetry.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6405 - Medieval Spanish Literature**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

An intensive study of the major genres of the period. Emphasis on selected works by major writers.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6485 - Contemporary Peninsular Literature**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

A study of the major writers and literary movements from the Generation of 1927 to the present.
Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6725 - The Generation of 1898

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

An analysis of the major works of writers of the Generation of 1898 such as Ganivet, Unamuno, Baroja, Azorin, and Machado.
Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6775 - Spanish Caribbean Prose

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): SPW 6919.
Spanish Caribbean writers from Colonial times to the present.
Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6825 - Colloquium in Don Quixote & Cervantes in the 21st Century

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.
Intensive reading and analysis of the first modern novel *Don Quixote* and a selection of works by the author Miguel de Cervantes.
Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6909 - Research Report

College of Arts and Humanities

SPW 6918 - Directed Research

College of Arts and Humanities

SPW 6919 - Advanced Spanish Graduate Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate student in Spanish MA program.

Introduce historical and literary criticism at the graduate level. Teach methods for independent study and provide students with tools needed for research in Spanish linguistics, literary criticism and culture.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

SPW 6971 - Thesis

College of Arts and Humanities

Speech Communication

SPC 5917 - Directed Research

College of Health Professions and Sciences

SPC 5937 - Special Topics

College of Health Professions and Sciences

SPC 6442 - Small Group Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

A study of communication and its effect on small group behavior.

Occasional

Nicholson School of Communication and Media - Department of Communication

SPC 6909 - Research Report

College of Health Professions and Sciences

SPC 6918 - Directed Research

College of Health Professions and Sciences

Speech Education

SPC 6340 - Teaching Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Develop best practices for teaching public speaking, interpersonal, persuasion, small group, organizational, mass, and intercultural communication concepts and skills.

Occasional

Nicholson School of Communication and Media - Department of Communication

Speech Pathology and Audiology

SPA 5917 - Directed Research

College of Health Professions and Sciences

SPA 5937 - Special Topics

College of Health Professions and Sciences

SPA 6057 - Methods in School Speech-Language Pathology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.

The study of essential concepts, methods and procedures used in school-based, speech-language pathology.

Occasional

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6204 - Articulation/Phonological Dis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.

Advanced theory, diagnosis, and treatment of articulation/phonological disorders including developmental apraxia of

speech, dysarthria, and cleft palate; communicative differences vs. disorders emphasized.
Material and Supply Fee: \$44.65 *Fall, Spring, Summer*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6211C - Voice Disorders

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.

Study of the etiology, evaluation, and management of voice disorders in children and adults, with laboratory demonstration and participation.

Material and Supply Fee: \$15.00 *Fall, Spring*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6225C - Fluency Disorders

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.

Study of the theories, etiology, symptomatology and development of fluency disorders as well as assessment, differential diagnosis and management of disorders of fluency in children and adults with fluency failures.

Fall, Spring

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6236 - Motor Speech Disorders in Adults and Children

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders and SPA 6204 or C.I.

Evaluation and treatment of dysarthrias, apraxias, and other motor speech disorders in adults and children associated with neurological problems, brain injury and systemic disease.

Material and Supply Fee: \$17.00 *Fall, Spring, Summer*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6245 - Communication Disorders in Cleft Palate-Velopharyngeal Dysfunction

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SPA 6204, SPA 6211C, or C.I.

Introduction to the management of communication and feeding disorders related to cleft palate and/or velopharyngeal dysfunction.

Fall

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6327 - Aural Habilitation Rehab

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the Communication Sciences and Disorders master's program or C.I.

Principles and procedures involved in speech and language acquisition, management, utilization of residual hearing, speech reading, and the use of hearing aids.

Material and Supply Fee: \$28.49 *Fall, Spring, Summer*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6401 - Language Disorders in Infants and Toddlers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SPA 6496 .

Assessment and intervention of communication disorders in infants and toddlers incorporating transdisciplinary and family-centered models.

Material and Supply Fee: \$12.00 *Fall*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6410 - Aphasia and Related Disorders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.

Evaluation and treatment of language disorders in adults with damage to the central nervous system, with an emphasis on etiology and differential diagnosis.

Material and Supply Fee: \$60.00 *Fall, Spring*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6417 - Cognitive/Communicative Disorders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SPA 6410 or C.I.

Evaluation and treatment of right hemisphere dysfunctions, traumatic brain injury, and dementias, with special emphasis on memory, cognition, pragmatics and other issues affecting functional communication.

Material and Supply Fee: \$60.00 *Spring*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6432 - Issues in Autism**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SPA 6402 or C.I.

Study of the diagnosis, assessment and intervention strategies for autism and related disorders.

Occasional

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6437 - Communication Foundations and Assistive/Instruction Technology for Communication**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Classroom approaches involving assistive/instructional technology used to meet communication needs of students with autism spectrum disorders and other communicative disorders.

Occasional

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6453 - Management of Cognitive-Communication Disorders in Traumatic Brain Injury**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SPA 6452 or C.I.

Management of cognitive-communication disorders in traumatic brain injury of school-aged and post-secondary students with emphasis on attention, perceptual skills, executive function, learning and social interaction.

Occasional

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MA in Communication Sciences or C.I.

Role of native and second languages, dialects and culture in the assessment and management of individuals from culturally and linguistically diverse backgrounds.

Material and Supply Fee: \$60.00 *Fall, Spring*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6503 - Foundations of Clinical Practice Level II

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): 6551 or C.I. Corequisite(s): 6503L.

Seminar preparing graduate clinicians for practicum with pediatric/adolescents across varied communication disorders: clinical decision-making, generalization, transfer, maintenance, service delivery, ethics, public policy and professional issues.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6503L - Found Clinic Practice-II APP

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): SPA 6551 or C.I. Corequisite(s): SPA 6503.

Supervised practicum across a variety of communication disorders within the pediatric and adolescent population. May be repeated for credit. Minimum of 20 clock hours required.

Material and Supply Fee: \$20.80 *Fall, Spring, Summer*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6541 - Assessment of Language Disorders in Children and Adolescents

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.
The assessment of spoken and written language disorders in children and adolescents.
Material and Supply Fee: \$70.00 *Every Semester*

College of Health Professions and Sciences - Department of Communication Sciences and Disorders

SPA 6542 - Intervention of Language Disorders in Children and Adolescents

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.
The nature and treatment of spoken and written language disorders in children and adolescents.
Every Semester

College of Health Professions and Sciences - Department of Communication Sciences and Disorders

SPA 6551 - Foundations of Clinical Practice: Level I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): Admission to Communication Sciences and Disorders master's program or C.I.
Strategic application of knowledge in normal communication sciences and development to clinical practice through creating, testing and developing hypotheses about the nature of communication disorders.
Fall, Spring, Summer

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): SPA 6503, SPA 6503L or C.I.
Clinical application of diagnostic process and assessment procedures for a variety of communication disorders across the life span. May be repeated for credit.
Material and Supply Fee: \$44.00 *Fall, Spring, Summer*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6559 - Augmentative and Alternative Communication

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.

The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia**1 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 1

Contact Hours: 1

Prerequisite(s): Admission to Communication Sciences and Disorders MA and SPA 6565 and SPA 6943C.

Gain competency diagnosing and planning care in individuals with swallowing disorders across the lifespan. Students learn fluoroscopic interpretation and individualized care planning.

Every Semester

College of Health Professions and Sciences - Department of Communication Sciences and Disorders

SPA 6565 - Feeding and Swallowing Disorders**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in communication Sciences and Disorders and SPA 6211C or C.I.

Evaluation and management of feeding and swallowing disorders in children and adults.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6569 - Management of Upper Airway and Aerodigestive Disorders**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): SPA 6211C; SPA 6565.

Overview of the presentation, diagnosis, management and potential complications of common upper airway and aerodigestive disorders in adults and children.

Material and Supply Fee: \$42.00 *Occasional*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6805 - Research in Communicative Disorders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders and STA 2014C or STA 2023 or equivalent or C.I.

Introduction to empirical research in communicative disorders, with emphasis on hypothesis testing, research design, data analysis, and interpretation of results.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6843 - Severe Language-Based Reading and Writing Disabilities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to M.A. in Communication Sciences and Disorders or C.I.

Development, assessment, and instruction of reading, writing, and spelling, with emphasis on phonemic awareness, decoding, text comprehension, spelling, and written expression.

Spring

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6909 - Research Report

College of Health Professions and Sciences

SPA 6918 - Directed Research

College of Health Professions and Sciences

SPA 6942 - Foundations of Clinical Practice: Level III

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 0

Contact Hours: 1

Prerequisite(s): SPA 6503, SPA 6503L or C.I. Corequisite(s): SPA 6942L.

Seminar preparing graduate clinicians for practicum with adults who have acquired disorders: clinical decision-making, generalization, transfer, maintenance, service delivery models, ethics, public policy and reimbursement.

Fall, Spring, Summer

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6942L - Found Clinic Practice-III APP

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): SPA 6503, SPA 6503 or C.I. Corequisite(s): SPA 6942.

Supervised practicum including acquired disorders with the adult population. May be repeated for credit. Minimum of 20 clock hours required.

Material and Supply Fee: \$20.10 *Fall, Spring, Summer*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6943C - Clinical Practice Level I

3 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 4

Contact Hours: 5

Prerequisite(s): SPA 6942, SPA 6942L.

Clinical practicum for the demonstration of knowledge and skill application in the diagnosis, treatment and management of persons with complex communication disorders across the lifespan.

Material and Supply Fee: \$40.00 *Fall, Spring, Summer*

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 6949 - Cooperative Education in Speech Pathology and Audiology

College of Health Professions and Sciences

SPA 7490 - Advanced Studies in Language Disorders

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Evaluation and management of language impairment and associated disorders in preschool and school-age children.

Occasional

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 7494 - Doctoral Seminar 1: Spoken and Written Language Disorders Preschool and Early Elem

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Research, theory and practice on spoken and written language disorders in preschool through early elementary school.

Fall

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Doctoral standing or C.I.

Research, theory and practice on spoken and written language disorders in upper elementary, secondary and post-secondary students.

Spring

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 7919 - Doctoral Research

College of Health Professions and Sciences

SPA 7945 - Doctoral Seminar II: Spoken and Written Language Disorders**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Doctoral standing or C.I.

Supervised experience in observing, supervising and evaluating internship performance in a clinical or school practicum in communication sciences and disorders.

Occasional

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 7947 - Internship in College Instruction**2 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Doctoral standing or C.I.

Supervised experience in the design, delivery and evaluation of a college course in communication sciences and

disorders.

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 7948 - Internship in Professional Development

2 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 2

Contact Hours: 2

Prerequisite(s): Admission to PhD in Education Communication Sciences and Disorders Track.

Supervised experience in the design, delivery and evaluation of professional development for educators in the area of communication sciences and disorders.

Fall

College of Health Professions and Sciences - School of Communication Sciences and Disorders

SPA 7980 - Dissertation

College of Health Professions and Sciences

Sport Business

SPB 6406 - Sport Law

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA master's program of study foundation core and admission to the Sport Business Management program.

Legal issues applicable to a sports context, developing familiarity with the legal terminology and broad understanding of key concepts in tort, contract, constitutional and common law. Employment, labor, antitrust, and agency law are also key components of this course.

Fall

College of Business Administration - Dean's Office - College of Business Administration

SPB 6506 - Moral and Ethical Issues in Sport

1.5 Credit Hours

Class Hours: 1.5

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): CBA master's program of study foundation core, and acceptance into the Sport Business Management program.

Broad understanding of the moral and ethical issues in sport including a special focus on the responsibility of governing bodies and decision-makers in sport including faculty, coaches, athletic directors, presidents, league commissioners, the NCAA, and the media. Issues will also include equity for women and people of color, academic abuses of student-

athletes at the high school and college level, illegal recruitment of student-athletes, use of performance enhancing drugs, agents, and gambling.

Fall

College of Business Administration - Dean's Office - College of Business Administration

SPB 6606 - Diversity and Social Issues in Sport Business Management

1.5 Credit Hours

Class Hours: 1.5

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): CBA master's foundation core and admission to the Master of Sport Business Management.

The impact of diversity and social issues in sport as business imperative to achieve social responsiveness and financial performance in professional, collegiate, and Olympic sport.

Occasional

College of Business Administration - Dean's Office - College of Business Administration

SPB 6706 - Sport Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Completion of foundation core modules and admission to Master of Sport Business Management program. Analysis and application of statistics, operations research, and economic theory to current business challenges and opportunities within the sport business industry.

Summer

College of Business Administration - Dean's Office - College of Business Administration

SPB 6715C - Professional Selling in Sport

1.5 Credit Hours

Class Hours: 1.5

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): CBA master's program of study foundation core and admission to the Sport Business Management program.

This course offers a comprehensive understanding of the sales process in the sport area. An overview of sales theory and its applications in sports are examined.

Summer

College of Business Administration - Dean's Office - College of Business Administration

SPB 6716C - Strategic Sport Marketing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 4

Prerequisite(s): CBA Masters Program of Study Foundation Core, and admission to the Sport Business Management program.

This course offers a comprehensive understanding of the marketing of sport and marketing through sport. Theoretical and practical applications of sport marketing are examined.

Occasional

College of Business Administration - Dean's Office - College of Business Administration

SPB 6725 - Leadership in Sport**1.5 Credit Hours**

Class Hours: 1.5

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): CBA master's program of study foundation core, and admission to the Sport Business Management program.

Theory, research, and practice of leadership in sports organizations. Special attention is given to contemporary leadership issues with leaders of sports industry leading many of the discussions. Examines the multiple roles that leaders can help sports organizations play in serving the community, including both traditional and creative philanthropy and case studies of model community service programs of sports teams, leagues, and college athletics departments. Lab Required.

Spring

College of Business Administration - Dean's Office - College of Business Administration

SPB 6735 - The Global Environment of Sport**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA master's program of study foundation core, and acceptance into the Sport Business Management program.

With the continuing development of sport as a global enterprise comes the need to understand the global environment. The focus of this course is on the international business environment and how sport may best operate within that environment.

Occasional

College of Business Administration - Dean's Office - College of Business Administration

SPB 6806 - Business of Sport Media**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CBA master's program of study foundation core, and acceptance into the Sport Business Management program.

History of how media has evolved from radio, network television and magazines into the multi-dimensional world of regional and national cable, the internet, the networks, huge rights fees and other new elements. The way sports media provides so much of the revenue for sports as an entertainment industry has made it the anchor for the sports industry.
Odd Spring

College of Business Administration - Dean's Office - College of Business Administration

Sports Management

SPM 5155 - Introduction to Sports Administration

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Kinesiology MS or C.I.

This course will provide an overview of the sports industry. Fundamental leadership administration and research theories as well as information on current issues are emphasized.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

SPM 5308 - Marketing and Promoting Sports and Fitness Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Kinesiology MS or C.I.

Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

SPM 6106 - Planning and Operating Facilities for Sports and Fitness Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

This course will provide students with an understanding of the factors involved in planning, designing, equipping, and managing of sport facilities and event logistics.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

SPM 6158 - Leadership and Management in Sports and Fitness Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

C.I. Examines leadership, management fundamentals, professional knowledge, sports personnel and evaluation systems, leadership ethics, and communication skills required of leaders in the sports industry.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

SPM 6726 - Legal Issues in Sports and Fitness Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

This course examines major legal issues in sports leadership. Emphasis is on providing legally sound programs that reduce the risk of litigation.

Occasional

College of Health Professions and Sciences - School of Kinesiology and Physical Therapy

Statistics

STA 5104 - Advanced Computer Processing of Statistical Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4163 and knowledge of a programming language, graduate status or senior standing, or C.I. Use of SAS and other statistical software packages; data manipulation; graphical data presentation; data analysis; creating analytical reports.

Fall

College of Sciences - Department of Statistics

STA 5176 - Introduction to Biostatistics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4163 or STA 4173, graduate status or senior standing, or C.I.

Fixed-effects model, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportional hazards model.

Occasional

College of Sciences - Department of Statistics and Data Science

STA 5205 - Experimental Design

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4164, STA 5206 or ESI 5219, and graduate status or senior standing, or C.I.

Construction and analysis of designs for experimental investigations. Blocking, randomization, replication; Incomplete block designs; factorial and fractional designs; design resolution.

Spring

College of Sciences - Department of Statistics

STA 5206 - Statistical Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 2023; not open to students who have completed STA 4164. Graduate status or senior standing or C.I.

Data analysis; statistical models; estimation; tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods.

Fall

College of Sciences - Department of Statistics

STA 5505 - Categorical Data Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4163 or STA 5206, and graduate status or senior standing or C.I.

Considers discrete probability distributions, contingency tables, measures of association, and advanced methods, including loglinear modeling, logistic regression, McNemar's Test, Mantel-Haenszel test.

Occasional

College of Sciences - Department of Statistics

STA 5703 - Data Mining Methodology I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 5104 and STA 5206, graduate status or senior standing, or C.I.

Supervised data mining tools including boosting trees, SV machine, regression, and neural network will be covered. The Enterprise Miner (R or Python) will be used.

Fall

College of Sciences - Department of Statistics

STA 5735 - Fundamental Data Analytical Methodology with Business Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 5104 An Analytical Programming Language PYTHON or R, or C.I.

Introduce methods to prepare structured and unstructured data that will then be used with modeling techniques, for the purpose of uncovering hidden knowledge and information in the data.

Fall

College of Sciences - Department of Statistics and Data Science

STA 5736 - Advanced Data Analytical Methodology with Business Applications

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and A Programming Language such as PYTHON and R, or C.I.

Learn to apply advanced analytical techniques to build models of real-world data collected from a variety of sources. These models are used to uncover data patterns and behaviors that can be used to support decision-making and to predict new business opportunities.

Spring

College of Sciences - Department of Statistics and Data Science

STA 5737 - Fundamental and Advanced Data Analytical Methodology with Business Applications

6 Credit Hours

Class Hours: 6

Lab and Field Work Hours: 0

Contact Hours: 6

Prerequisite(s): STA 5104, or C.I.

The applications of data analytics for business. Emphasis is made on students being able to use the techniques in a variety of situations.

N Spring

College of Sciences - Department of Statistics and Data Science

STA 5738 - Data and Analytical Methodology for Metropolitan and Regional Areas

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): COP 4020, or STA 4102, or C.I.

Examining tools and methodologies for analyzing urban data collections. This information can assist in the emergence of smart cities. Practice and theory will be covered.

Fall

College of Sciences - Department of Statistics and Data Science

STA 5825 - Stochastic Processes and Applied Probability Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4321, and graduate status or senior standing or C.I.

Conditional probability and conditional expectations, sequences of random variables, branching processes, random walks, Markov chains, recurrent events, renewal theory, queueing theory, and simple stochastic processes.

Spring

College of Sciences - Department of Statistics

STA 5917 - Directed Research

College of Sciences

STA 5937 - Special Topics

College of Sciences

STA 6106 - Statistical Computing I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6327, or CI.

Introduction to programming with R and Python, loops, functions, control flow in R and Python, Numpy, Scipy,

Matplotlib, Pandas, Monte Carlo integration, random variable generation, Newton-Raphson method, IRWLS, steepest descent, golden section search

Fall

College of Sciences - Department of Statistics

STA 6107 - Statistical Computing II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6106 (or Knowledge of programming with R and Python) and STA 6329 (or knowledge of Matrix Algebra).

Monte Carlo for inferential statistics, bootstrap, Jackknife, cross-validation, Karush-Kuhn-Tucker (KKT) optimality conditions, Strong duality, SVM, least squares SVM, MCMC, Metropolis Hastings algorithm, Gibbs sampling, Ridge regression (Tikhonov regularization), lasso, EM algorithm, kernel methods, QR decomposition, updating methods.

Spring

College of Sciences - Department of Statistics

STA 6136 - Probability and Statistics for Business Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to the MSM Business Analytics program.

Introduction to the main tools of probability and statistics used in business analytics.

Occasional

College of Sciences - Department of Statistics

STA 6223 - Conventional Survey Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 5206 and graduate student standing, or C.I.

Design of conventional finite population sample surveys; Stratified, systematic, and multistage cluster sampling designs, ratio and regression estimators, non-response bias.

Occasional

College of Sciences - Department of Statistics and Data Science

STA 6224 - Bayesian Survey Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 5206, STA 6222, or C.I.

Bayesian methods for survey design and analysis of survey data.

Occasional

College of Sciences - Department of Statistics and Data Science

STA 6226 - Sampling Theory and Applications**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4321.

Different techniques of sampling, sampling for proportions, choosing sample size, ratio estimates, effects of sampling and non-sampling errors.

Occasional

College of Sciences - Department of Statistics

STA 6236 - Regression Analysis**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAS 3105 and STA 4164.

General linear model, model aptness and remedial measures, regression through the origin, independent and dependent indicator variables, multicollinearity, outliers, biased regression.

Fall

College of Sciences - Department of Statistics

STA 6237 - Nonlinear Regression**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6236 (or knowledge of linear regression).

Nonlinear regression: model specification, diagnostics. Estimation: nonlinear least squares, SAS, Gauss Newton algorithm. Robust regression: M-estimation adaptive robust regression. Logistic regression, Poisson regression.

Occasional

College of Sciences - Department of Statistics

STA 6238 - Logistic Regression

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6236.

Studies of logistic regression models: estimation, interpretation, model building strategies and assessments, and polytomous regression, SAS programming in the application of logistic regression modeling.

Spring

College of Sciences - Department of Statistics

STA 6246 - Linear Models

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6329, STA 4164, and STA 4322.

Theoretical development of full rank linear statistical models, least squares and maximum likelihood estimation, interval estimation, hypothesis testing, and introduction to less than full rank models.

Spring

College of Sciences - Department of Statistics and Data Science

STA 6326 - Theoretical Statistics I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAC 2313.

Distribution of random variables, conditional probability and independence, some special distributions, distributions of functions of random variables, limiting distributions.

Fall

College of Sciences - Department of Statistics

STA 6327 - Theoretical Statistics II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6326.

Point estimation, sufficient statistics, completeness, exponential family, maximum likelihood estimators, statistical hypotheses, best tests, likelihood ratio tests, noncentral distributions.

Spring

College of Sciences - Department of Statistics

STA 6329 - Statistical Applications of Matrix Algebra

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MAC 2313 and STA 4164 or STA 5206.

Basic theory of determinants, inverses, generalized inverses, eigenvalues and eigenvectors, partitioned matrices.

Diagonalization and decomposition theorems, least squares and statistical applications.

Fall

College of Sciences - Department of Statistics

STA 6346 - Advanced Statistical Inference I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6327.

Decision rules, risk functions, utility theory, the loss function, prior information and subjective probability, Bayesian analysis.

Occasional

College of Sciences - Department of Statistics

STA 6347 - Advanced Statistical Inference II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 6346, or C.I..

Minimax analysis, invariance, admissibility, maximal invariants, sequential analysis.

Occasional

College of Sciences - Department of Statistics and Data Science

STA 6507 - Nonparametric Statistics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4321.

Theory and methods for one and two sample problems; one and two way layouts; independence problems; regression problems.

Occasional

College of Sciences - Department of Statistics

STA 6662 - Statistical Methods for Industrial Practice

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 4164 or C.I.

Variance components, PCRs, autocorrelation structures, charting, EVOP, design strategies, calibration, standards, and associated awards.

Occasional

College of Sciences - Department of Statistics and Data Science

STA 6704 - Data Mining Methodology II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): STA 5703.

Unsupervised learning methods such as cluster analysis, association analysis and newly developed tools will be covered. The Enterprise Miner (R or Python) will be used.

Spring

College of Sciences - Department of Statistics

STA 6705 - Data Mining Methodology III

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and STA 5703, or C.I.

Current topics in data mining.

Occasional

College of Sciences - Department of Statistics and Data Science

STA 6707 - Multivariate Statistical Methods

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): MAS 3105, STA 4163, and STA 4322.
Concepts of statistical relationships among several variables and methods for inference. Multivariate normal, Hotelling's T-Squared, multivariate analysis of variance, canonical correlations and principal components.
Occasional

College of Sciences - Department of Statistics

STA 6709 - Spatial Statistics

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

STA 6707 and STA 5825. Statistical models and methods for analyzing data that are collected at different spatial locations and/or at different times, spatial or spatio-temporal data.

Even Spring

College of Sciences - Department of Statistics

STA 6714 - Data Preparation

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): STA 5104.
Variable selections, missing value imputation, text, time series, and new data preparation method will be covered. The Enterprise Miner (R or Python) will be used.

Spring

College of Sciences - Department of Statistics

STA 6857 - Applied Time Series Analysis

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): STA 4322, MAS 3105.
Stationarity, autocorrelation, moving averages and autoregressive processes. Non-stationary time series. Identification and estimation. Forecasting.

Occasional

College of Sciences - Department of Statistics

STA 6909 - Research Report

College of Sciences

STA 6918 - Directed Research

College of Sciences

STA 6938 - Special Topics

College of Sciences

STA 6949 - Cooperative Education in Statistics

College of Sciences

STA 7239 - Dimension Reduction in Regression

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 6236 or STA 5206. Reducing the number of random variables/features in regression, feature selection and extraction, kernel principal component analysis, locally linear embedding.

Occasional

College of Sciences - Department of Statistics

STA 7348 - Bayesian Modeling and Computation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 5703 and STA 6704. Bayesian model, prior specification, basics of decision theory, Markov chain Monte Carlo, Bayes factor, empirical Bayes, Bayesian linear regression and generalized linear models, hierarchical models.

Occasional

College of Sciences - Department of Statistics

STA 7719 - Survival Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 6326 and STA 6327, or C.I. Censoring, hazard and survival functions, Kaplan-Meier estimator, lifetime table, partial likelihood, Cox proportional hazards model, accelerated failure time model.

Even Spring

College of Sciences - Department of Statistics

STA 7722 - Statistical Learning Theory

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 6329, STA 6327, and STA 6106. Discuss when statistical learning algorithms work and why by focusing on developing a theoretical understanding of the statistical properties of learning algorithms.

Even Fall

College of Sciences - Department of Statistics

STA 7734 - Statistical Asymptotic Theory in Big Data

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 6327 and STA 6704. Asymptotic theory of statistics, with an array of applications to motivate as well as demonstrate its utility in addressing problems in Big Data research.

Even Fall

College of Sciences - Department of Statistics

STA 7920 - Statistical Colloquium

0 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 0

Contact Hours: 0

Prerequisite(s): Admission to the PhD program in the Department of Statistics and Data Science, or C.I. Introduces students to new variety of topics in statistics and big data analytics.

Odd Fall, Even Fall, Odd Spring, Even Spring

College of Sciences - Department of Statistics

STA 7935 - Current Topics in Big Data Analytics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 5703 and STA 6704. Discussion of new and current techniques developed to solve big data problems that are not covered in current big data analytic courses.

Occasional

Student Development Services

SDS 5917 - Directed Research

College of Community Innovation and Education

SDS 5937 - Special Topics

College of Community Innovation and Education

SDS 6308 - Applied Practice in Career Services

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

SDS 6347 and SDS 6XXX Career and College Readiness in Schools PK-12. This course provides an opportunity to work with individuals in various school and community settings to experience career development activities.

Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SDS 6347 - Career Development

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

A study of career development theories, occupational and educational information, approaches to career decision-making life-style and leisure in the development of the whole person.

Summer, Fall

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SDS 6411 - Counseling with Children and Adolescents

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): EGC 6436 and EDF 6155 or C.I.

Study of counseling theory, process, and techniques as applied to children and adolescents. Course will contain an experiential component.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SDS 6620 - Coordination of Comprehensive Professional School Counseling Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MHS 5005, MHS 6400, MHS 6401, MHS 6500, MHS 6702.

In-depth analysis of comprehensive developmental professional school counseling programs, including the coordination of these programs.

Odd Spring, Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SDS 6622 - Career and College Readiness in Schools PK-12

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. This course provides graduate students and practitioners with a developmental overview of child and adolescent career growth focusing on interventions for career education and counseling.

Spring

College of Community Innovation and Education - Department of Counselor Education and School Psychology

SDS 6909 - Research Report

College of Community Innovation and Education

SDS 6918 - Directed Research

College of Community Innovation and Education

SDS 6938 - Special Topics

College of Community Innovation and Education

SDS 6947 - Internship in Professional School Counseling

1-6 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1-6

Contact Hours: 1-6

Prerequisite(s): MHS 5005, MHS 6400, MHS 6401, MHS 6500, MHS 6702, MHS 6803, SDS 6620.
Supervised fieldwork experience in professional school counseling, emphasizing experiences that support the development of student interns' counseling competencies and delivery of comprehensive services to all students.
Even Fall, Even Spring, Even Summer

College of Community Innovation and Education - Department of Counselor Education and School Psychology

Taxation

TAX 5015 - Advanced Tax Topics

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, TAX 4001 with a "C" (2.0) or better.
Advanced tax issues affecting business entities and their owners, with a primary focus on corporations and partnerships.
Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

TAX 5917 - Directed Research

College of Business Administration

TAX 5937 - Special Topics

College of Business Administration

TAX 6065 - Tax Research

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing and completion of all business and accounting foundation core courses and a "C" (2.0) or better in TAX 5015.
Legal and ethical guidelines governing tax practice.
Fall, Spring

College of Business Administration - Kenneth G. Dixon School of Accounting

TAX 6317 - Taxation of Flow-thru Entities

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing and completion of all business and accounting foundation core courses and a "C" (2.0) or better in TAX 5015.
Federal taxation relating to operations, formation, distribution, retirements and liquidations of flow-thru entities such as partnerships, limited liability companies, and S corporations.
Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

TAX 6527 - Multi-jurisdictional Taxation

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing and TAX 4001.
Study of tax issues involved when business enterprises operate in multiple taxing jurisdictions. Principles of both multi-state and international income taxation.
Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

TAX 6845 - Tax Planning and Consulting

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing and completion of all business and accounting foundation core courses and a "C" (2.0) or better in TAX 5015.
Individual and business tax planning.
Occasional

College of Business Administration - Kenneth G. Dixon School of Accounting

TAX 6909 - Research Report

College of Business Administration

TAX 6918 - Directed Research

College of Business Administration

TAX 6938 - Special Topics

College of Business Administration

TAX 6971 - Thesis

College of Business Administration

TAX 7919 - Research

College of Business Administration

TAX 7939 - Special Topics

College of Business Administration

Teaching English as a Second Language

TSL 5085 - Teaching Language Minority Students in K-12 Classrooms

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to College of Education Master of Arts Program or C.I.

Teaching K-12 limited English proficient (LEP) students. Florida standards regarding cross-cultural communication, ESOL curriculum, and materials, ESOL methodology, testing and evaluation of ESOL students, applied linguistics.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

TSL 5325 - ESOL Strategies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

This course will survey cross-cultural communication and understanding, testing and evaluation, curriculum and methods of teaching ESOL to meet the needs of limited English proficient students.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 5345 - Methods of ESOL Teaching

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of

ESOL.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

TSL 5376 - Reading and Writing in a Second Language

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Theoretical and pedagogical approaches to ESOL reading and writing.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 5380 - Computers and Technology for ESOL

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Emphasizes research in computer assisted language learning, as well as design and evaluation of software and websites for learning English as a second language.

Even Summer

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 5525 - ESOL Cultural Diversity

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs.

Summer

College of Community Innovation and Education - School of Teacher Education

TSL 5601 - Second Language Vocabulary Learning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Considers lexical issues encountered by second language learners; explores best practices for learners and their teachers and examines current research for pedagogical application.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 5917 - Directed Research

College of Arts and Humanities

TSL 5937 - Special Topics

College of Community Innovation and Education

TSL 5940 - Issues in TEFL

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate status or senior standing or C.I.

Address issues specifically related to TEFL, such as materials adaptation, teaching in multi-level classrooms, learning styles, cultural issues, and curriculum syllabus design.

Spring

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6142 - Critical Approaches to ESOL

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Emphasis placed on current research in second language acquisition as it relates to the development of ESOL curriculum and materials.

Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6143 - Curriculum and Instruction in Dual Language Programs

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

This course is an introduction to methods and research in teaching of literacy to all bilingual learners, using the home

language and new language.

Spring

College of Community Innovation and Education - School of Teacher Education

TSL 6250 - Applied Linguistics in ESOL

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Applying linguistics, psycholinguistics, and sociolinguistics to teaching English as a second language with emphasis on pronunciation, intonation, structural analysis, morphophonemics, and decoding from print to sound.

Spring

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6252 - Sociolinguistics for ESOL

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Core concepts in the field of sociolinguistics as it relates to the teaching of English as a second language.

Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6350 - Grammar for ESOL Teachers

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Emphasis on English grammar for English as a Second Language teachers. Includes analytical and theoretical background, but primarily examines problematic grammar points for ESOL learners.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6374 - TESOL Listening, Speaking and Pronunciation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Graduate standing or C.I. Applications of second language acquisition theories, principles, and current research as they relate to the teaching of ESL listening, speaking and pronunciation.

Even Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course is an introduction to methods and research in teaching of literacy to all bilingual learners, using the home language and new language.

Fall

College of Community Innovation and Education - School of Teacher Education

TSL 6379 - Second Language Literacy

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TSL 5085 or TSL 5345 AND TSL 6250.

An overview of literacy issues and literacy instruction for second language learners.

Even Fall

College of Community Innovation and Education - School of Teacher Education

TSL 6440 - Assessment Issues in TESOL

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course provides for the development of sound assessment knowledge necessary to prepare students to apply second language assessment theories, principles, and current research.

Even Fall, Even Spring

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6442 - Fundamentals of Standardized Assessment in TESOL

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0
Contact Hours: 3

Graduate standing or C.I. This course will address the standardized assessment practices in TESOL as well as the instructional and research implications.

Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6443 - Assessment in Dual Language Programs

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

This course provides a foundation for assessing language and academic proficiency in dual language programs.

Spring

College of Health Professions and Sciences - School of Social Work

TSL 6526 - Interdependencies of Language, Culture, and Education for Dual Language Learners

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s):

Graduate Standing or C.I.

This course focuses on the interdependencies of language, culture, and education as they relate to dual language learners.

Summer

College of Community Innovation and Education - School of Teacher Education

TSL 6600 - Second Language Vocabulary Acquisition

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s): Graduate standing or C.I. and one of the following graduate research courses: TSL 6640, EDF 6481, EDF 7475, EDF 7403.

Research on how learners acquire new vocabulary in a second language. Course requires extensive reading as well as original field research.

Even Spring

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6640 - Research in Second Language

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

This course focuses on research into language learning processes which serves as a knowledge base for effective teaching of language-minority students.

Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6642 - Issues in Second Language Acquisition

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TSL 6250, TSL 6640.

Focuses on second language acquisition theories, principles, and current research as they relate to language-minority students acquiring English as a Second Foreign Language.

Even Spring

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6643 - Diachronic Analysis of Second Language Acquisition Processes

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Analysis of current research on second language acquisition (SLA) processes across the life span.

Odd Fall

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6909 - Research Report

College of Arts and Humanities

TSL 6938 - Special Topics

College of Arts and Humanities

TSL 6940 - ESOL Practicum

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Techniques and strategies for creating effective lesson plans for ESOL classroom activities.

Fall, Spring, Summer

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 6971 - Thesis**VAR Credit Hours**

Contact Hours: 0

This course is intended for graduate students in the TESOL MA program who wish to exercise the option of writing a thesis. May be repeated for credit.

Occasional

College of Arts and Humanities - Department of Modern Languages and Literatures

TSL 7006 - Second Language Teacher Preparation**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to TESOL Ph.D. track or C.I.

Examines the history of general and second language teacher preparation and provides a theoretical and practical rationale for the development of knowledge, skills, and dispositions necessary to prepare ESL and other teachers of English learners.

Even Spring

College of Community Innovation and Education - School of Teacher Education

TSL 7948 - Doctoral Internship**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Students work with faculty members to develop teaching competency and research focus through a professional teaching experience. May be used in the degree program a maximum of 2 times.

Fall, Spring

College of Community Innovation and Education - School of Teacher Education

TSL 7980 - Dissertation Research

VAR Credit Hours

Class Hours: 0-99

Contact Hours: 0-99

Prerequisite(s): Student must be in candidacy.

This is a dissertation research course. May be repeated for credit.

Fall, Spring, Summer

College of Community Innovation and Education - School of Teacher Education

Theatre Performance and Performance Training

TPP 5087C - Theatre Careers in Performance

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Admission to the MFA and MA programs in Theatre. Techniques needed to secure employment in performance or related fields.

Even Spring

College of Arts and Humanities - School of Performing Arts

TPP 5125C - Improvisation Studio

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Acting for Youth Theatre.

A study of spontaneous dramatic play and theatre exercises designed to develop self-discipline, creative freedom and resources for the stage and classroom.

Odd Fall

College of Arts and Humanities - School of Performing Arts

TPP 5156C - Acting Studio I

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to the MFA Acting program.

An advanced scene study course using Shakespeare's canon to explore scene analysis, character development, and application of acting techniques.

Even Fall

College of Arts and Humanities - School of Performing Arts

TPP 5157C - Acting Studio II

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): TPP 5156C.

Advanced scene study course applying acting methodologies to the works of modern playwrights.

Odd Spring

College of Arts and Humanities - School of Performing Arts

TPP 5246C - Circus Arts

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to Theatre graduate program or C.I

Circus skills and history.

Even Spring

College of Arts and Humanities - School of Performing Arts

TPP 5248C - Storytelling as a Theatrical Art Form

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to Theatre graduate program or C.I.

Application of storytelling as an art form.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 5273 - Musical Theatre Acting I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): TPP 5157C.

Integrated study in musical theatre acting, singing and movement applied to musical theatre performance, direction and choreography; emphasizing developing skills in textual and musical interpretation.

Occasional

College of Arts and Humanities - School of Performing Arts

TPP 5278C - Musical Theatre Lab

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): TPP 5157C.

Practical course in developing musical theatre skills for the actor.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 5289C - Acting Methodologies

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): Admission to the graduate program in Theatre or C.I.

Approaches to acting.

Even Fall

College of Arts and Humanities - School of Performing Arts

TPP 5386C - Directing for Young Audiences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): THE 5910 and THE 5385.

Study of the principles, procedures, and practices of stage direction as it applies to theatre for young audiences.

Odd Spring

College of Arts and Humanities - School of Performing Arts

TPP 5515 - Movement Studio I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to MFA Performance Program.

Graduate level course in principles and methods of movement for the stage focusing on relaxation, centering, increased physical control, and physical development of a character.

Fall

College of Arts and Humanities - School of Performing Arts

TPP 5516C - Movement Studio II

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): TPP 5515 or C.I.

Principles and methods of movement for the stage focusing on gaining specific knowledge and skills in period styles of movement and basic unarmed combat.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 5554C - Musical Theatre Dance I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to MA or MFA Musical Theatre program

Advanced dance study with particular emphasis on the development of principles of alignment, coordination, isolation, and sequencing.

College of Arts and Humanities - School of Performing Arts

TPP 5555C - Musical Theatre Dance II

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Prerequisite(s): TPP 5554C.

Advanced dance study with particular emphasis on the development and expression of characterization in dance.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 5715C - Stage Voice I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to the MFA Acting program.

Fundamentals of breathing and vocal production. Combination of various voice methodologies, focusing on the relaxation of physical tension and articulation.

Even Fall

College of Arts and Humanities - School of Performing Arts

TPP 5716C - Stage Voice II

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to MFA Acting program.

Continuation of Stage Voice I, including Skinner's IPA and application of physical vocal techniques to longer texts.

Odd Spring

College of Arts and Humanities - School of Performing Arts

TPP 5754 - Musical Theatre Voice I

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to MA or MFA Musical Theatre program or C.I.

Voice study devoted to the diagnosis and development of the singing voice and its application to musical theatre performance placing particular emphasis upon vocal technique.

College of Arts and Humanities - School of Performing Arts

TPP 5917 - Directed Research

College of Arts and Humanities

TPP 5935C - Contemporary Practices in Youth Theatre

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to MFA graduate program or C.I.

Investigation of a particular subject in youth theatre. May be used in the degree program a maximum of 5 times.

Odd Spring

College of Arts and Humanities - School of Performing Arts

TPP 5937 - Special Topics

College of Arts and Humanities

TPP 5949 - Cooperative Education in Theatre Performance and Train

College of Arts and Humanities

TPP 5957 - Study Abroad

College of Arts and Humanities

TPP 6146C - Acting Studio III

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): TPP 5157C Acting Studio II.

An advanced acting course applying acting methodologies to the works of classical playwrights and a variety of styles.
Odd Fall

College of Arts and Humanities - School of Performing Arts

TPP 6186C - Advanced Scene Study

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to MFA Acting program.

Acting techniques related to all forms of theatre including TYA, commercial, and new play development.
Even Fall

College of Arts and Humanities - School of Performing Arts

TPP 6216C - Theatre for Young Audiences Tour

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 6

Contact Hours: 9

Prerequisite(s): Admission to the graduate program in Theatre or C.I.

Performance, administration and technical work on a touring production for young audiences.
Material and Supply Fee: \$45.00 *Even Spring*

College of Arts and Humanities - School of Performing Arts

TPP 6247 - Theatre for Social Change

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Methods of Teaching Drama.

The study and application of interactive theatre techniques to effect change related to social, cultural, interpersonal and personal issues.

Even Spring

College of Arts and Humanities - School of Performing Arts

TPP 6267 - Acting Studio IV

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): TPP 6146.

An advanced acting class that focuses on the technical and practical aspects of acting for film and television.

Even Spring

College of Arts and Humanities - School of Performing Arts

TPP 6274 - Musical Theatre Acting II

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): TPP 5273.

Advanced and integrated study with emphasis on the development of skills in musical theatre characterization.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 6279 - Musical Theatre Master Class

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to Theatre MFA Musical Theatre Track.

Master classes conducted by permanent staff members and guest artists of the Seaside Music Theatre Company.

Fall

College of Arts and Humanities - School of Performing Arts

TPP 6344 - Musical Theatre Directing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MFA Musical Theatre program.

A comprehensive study and practical application of the unique problems of directing for the musical stage.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 6517 - Movement Studio III

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): TPP 5516C

Continuation of principles/methods of movement for the stage covered in Movement Studio II with focus on gaining specific skills in dance for musical theatre/period plays.

Fall

College of Arts and Humanities - School of Performing Arts

TPP 6518C - Movement Studio IV

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): Movement Studio III.

Covers the principles/methods of armed/unarmed combat for the stage, including hand to hand, foil, epee, broadsword, sabre, rapier, dagger, and quarter staff combat.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 6556C - Musical Theatre Dance III

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Prerequisite(s): TPP 5555C.

Advanced dance study with particular emphasis on the development of jazz and tap technique.

Fall

College of Arts and Humanities - School of Performing Arts

TPP 6557C - Musical Theatre Dance IV

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Prerequisite(s): TPP 6556C.

Advanced dance study with particular emphasis on the development of musical theater dance style and choreography.
Spring

College of Arts and Humanities - School of Performing Arts

TPP 6686 - Playwriting for Young Audiences

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Dramatic Literature for Children.

Practical experience in the creative process of playwriting for young audiences.

Odd Fall

College of Arts and Humanities - School of Performing Arts

TPP 6717C - Stage Voice III

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to MFA Acting program.

Continuation of Stage Voice I and II, focusing on Shakespeare's use of language.

Odd Fall

College of Arts and Humanities - School of Performing Arts

TPP 6718C - Stage Voice IV

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 3

Contact Hours: 5

Prerequisite(s): Stage Voice III.

A practical study of American and European dialects with application of Skinner and Lessac transcription.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 6755 - Musical Theatre Voice II

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

Prerequisite(s): Admission to MA or MFA Musical Theatre program or C.I.
Advanced voice study placing particular emphasis upon textual analysis and characterization.
College of Arts and Humanities - School of Performing Arts

TPP 6756 - Musical Theatre Voice III

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to MFA Musical Theatre program.
Continuation of Musical Theatre Voice II placing particular emphasis upon knowledge of musical theatre repertoire and its application to the history of the art form.

Fall

College of Arts and Humanities - School of Performing Arts

TPP 6757 - Musical Theatre Voice IV

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 0

Contact Hours: 2

Prerequisite(s): Admission to MFA Musical Theatre program.
Continuation of Musical Theatre Voice III placing particular emphasis on synthesizing scene-to-song vocal production.

Spring

College of Arts and Humanities - School of Performing Arts

TPP 6908 - Independent Study

College of Arts and Humanities

TPP 6909 - Research Report

College of Arts and Humanities

TPP 6918 - Directed Research

College of Arts and Humanities

TPP 6933 - Acting Studio V

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 1

Contact Hours: 3

TPP 6267. An advanced acting course that will explore and develop specialty areas of actor training.
Odd Spring

College of Arts and Humanities - School of Performing Arts

TPP 6938 - Special Topics

College of Arts and Humanities

TPP 6946 - Internship

College of Arts and Humanities

TPP 6958 - Study Abroad

College of Arts and Humanities

TPP 6971 - Treatise (Thesis or Research Report).

College of Arts and Humanities

TPP 6973 - Thesis-Specialist

College of Arts and Humanities

Theatre Production and Administration

TPA 5029C - Lighting Design Studio

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): TPA 5042C and TPA 5062C.

Advanced work in the process of designing light for the stage with an emphasis on the use of light as artistic expression.

Occasional

College of Arts and Humanities - School of Performing Arts

TPA 5042C - Costume Design Studio

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to the graduate program in Theatre or C.I.
Project oriented course in the advance study of Costume Design.
Occasional

College of Arts and Humanities - School of Performing Arts

TPA 5062C - Scene Design Studio

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Graduate status or C.I.

Advanced work in the conceptualization and communication of scenic designs for the theatre.

Spring

College of Arts and Humanities - School of Performing Arts

TPA 5081C - Design Concepts for Youth Theatre

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): Admission to the graduate program in Theatre or C.I.

A study of design elements (lighting, costume, set) as they apply to youth theatre.

Odd Spring

College of Arts and Humanities - School of Performing Arts

TPA 5085C - Design Seminar for Theatre

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission into Theatre MFA Design track.

Scenic, costume, lighting and sound design for theatre.

Occasional

College of Arts and Humanities - School of Performing Arts

TPA 5095C - Rendering for Theatre I

1 Credit Hours

Class Hours: 1

Lab and Field Work Hours: 1

Contact Hours: 2

Prerequisite(s): Admission to the graduate program in Theatre or C.I.
Traditional visual communication skills necessary for scenic, costume, and lighting design.
Fall

College of Arts and Humanities - School of Performing Arts

TPA 5175C - Rendering for Theatre II

1 Credit Hours

Class Hours: 1
Lab and Field Work Hours: 1
Contact Hours: 2

Prerequisite(s): TPA 5095C.
Software and technology available for visual communication and documentation.
Spring

College of Arts and Humanities - School of Performing Arts

TPA 5345C - 2D Computer Assisted Design for Theatre

2 Credit Hours

Class Hours: 2
Lab and Field Work Hours: 2
Contact Hours: 4

Prerequisite(s): Admission into the Theatre MFA Design track.
Two-Dimensional computer drafting and editing techniques applicable to theatre design.
Occasional

College of Arts and Humanities - School of Performing Arts

TPA 5346C - 3D Modeling for Theatre

2 Credit Hours

Class Hours: 2
Lab and Field Work Hours: 2
Contact Hours: 4

Prerequisite(s): TPA 5345C.
Three-dimensional computer modeling and editing techniques applicable for theatre design.
Occasional

College of Arts and Humanities - School of Performing Arts

TPA 5405 - Theatre Management

3 Credit Hours

Class Hours: 3
Lab and Field Work Hours: 0
Contact Hours: 3

Prerequisite(s):

Graduate standing or C.I.

Study of university, community and professional theatre management with special attention to the principles of management to include management skills/function and organizational systems/performance as they relate to theatre organizations/institutions.

Odd Fall

College of Arts and Humanities - School of Performing Arts

TPA 5885C - Puppetry

2 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to MFA graduate program or C.I.

Puppetry as an art form in design and performance.

Material and Supply Fee: \$30.00 *Odd Spring*

College of Arts and Humanities - School of Performing Arts

TPA 5917 - Directed Research

College of Arts and Humanities

TPA 5937C - Special Topics

College of Arts and Humanities

TPA 5946C - Design Practicum I

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 20

Prerequisite(s): Admission into the MFA Design program.

Practical experience as a member of the production team as a prop master or assistant scenic, costume, lighting, or sound designer.

Occasional

College of Arts and Humanities - School of Performing Arts

TPA 5949 - Cooperative Education in Theatre Production and Administration

College of Arts and Humanities

TPA 5949C - Design Practicum II

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 20

Prerequisite(s): Admission into the graduate program and TPA 5946C or C.I.

Advanced work in the practical application of Properties and/or Design for the Theatre.

Occasional

College of Arts and Humanities - School of Performing Arts

TPA 5957 - Study Abroad

College of Arts and Humanities

TPA 6087C - Advanced Design Seminar for Theatre**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): TPA 5085C.

Continuation of Design Seminar for Theatre.

Spring

College of Arts and Humanities - School of Performing Arts

TPA 6096C - Advanced Rendering and Modeling for Theatre I**3 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): TPA 5095C.

Technology relating to visual communication as well as 3 dimensional communication tools. May be used in the degree program a maximum of 3 times.

Fall

College of Arts and Humanities - School of Performing Arts

TPA 6158 - Small Project Studio**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TPA 6187: Themed Experience Seminar or C.I.

Concept and design of small capacity themed projects such as kiosks, food carts, counter sales and queue engagement.

Spring

College of Arts and Humanities - School of Performing Arts

TPA 6186 - Immersive Experience Studio

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TPA 6158: Small Project Studio or C.I.

Mid-sized themed experiences designed to engage guests for 1-4 hours. Students will design space, guest flow, timing, and themed interaction.

Fall, Spring

College of Arts and Humanities - School of Performing Arts

TPA 6187 - Themed Experience Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate Standing or C.I.

In-depth study of the creation, concepts and practices that drive the themed experience and an overview of the industry and art form. Work will culminate in a collaborative studio project.

Fall

College of Arts and Humanities - School of Performing Arts

TPA 6188 - Visualizing Themed Environments

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TPA 6187: Themed Experience Seminar or C.I.

Fundamentals of virtual placemaking and creating 3-D interactive environments through the utilization of 3-D software and virtual reality tools.

Fall

College of Arts and Humanities - School of Performing Arts

TPA 6437 - Careers in Themed Experience

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TPA 6186: Immersive Experience Studio or C.I.
Development of professional goals, knowledge, marketing materials, and skills for the active themed experience industry professional.

Spring

College of Arts and Humanities - School of Performing Arts

TPA 6908 - Independent Study

College of Arts and Humanities

TPA 6909 - Research Report

College of Arts and Humanities

TPA 6918 - Directed Research

College of Arts and Humanities

TPA 6921 - Collaborative Project Studio

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TPA 6186: Immersive Experience Studio or C.I.
Students work collaboratively on a large scale themed experience concept and design. Coursework will emulate a professional production environment.

Spring

College of Arts and Humanities - School of Performing Arts

TPA 6938 - Special Topics

College of Arts and Humanities

TPA 6946 - Internship

College of Arts and Humanities

TPA 6947 - Design Practicum III

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 20

Prerequisite(s): TPA 5949C.
Practical experience as a member of the production team as a scenic, costume, lighting, or sound designer in an area not

previously designed.

Occasional

College of Arts and Humanities - School of Performing Arts

TPA 6948L - Design Practicum IV

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 20

Prerequisite(s): MFA Design Candidate, Design Practicum III.

Practical experience as a member of the production team as a scenic, costume, lighting, or sound designer in an area not previously designed.

Occasional

College of Arts and Humanities - School of Performing Arts

TPA 6958 - Study Abroad

College of Arts and Humanities

TPA 6971 - Treatise (Thesis or Research Report)

College of Arts and Humanities

TPA 6973 - Thesis-Specialist

College of Arts and Humanities

Theatre Studies and General Resources

THE 5205 - American Theatre

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): THE 5910, and MA or MFA Theatre Graduate.

Examination of performance and historical perspectives of American drama.

Spring

College of Arts and Humanities - School of Performing Arts

THE 5215 - Global Theatre

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the MFA/MA Theatre programs or C.I.

Theatrical arts and traditions of various countries with an emphasis on non-western countries.

Occasional

College of Arts and Humanities - School of Performing Arts

THE 5237 - Cultural Diversity in Theatre

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the MFA/MA Theatre programs or C.I.

Commonality of human experience among various groups through the study of dramatic literature.

Occasional

College of Arts and Humanities - School of Performing Arts

THE 5248 - Musical Theatre in History

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MFA Musical Theatre Program.

A chronological study of musical theatre from early Viennese operetta to the musicals of the modern age. Course will emphasize the work of composers, librettists, and lyricists as well as representative masterworks of a variety of genre. Emphasis will be placed upon historical trends and theatrical viability.

Fall

College of Arts and Humanities - School of Performing Arts

THE 5288 - Period Costumes, Architecture and Decor I

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into Theatre MFA Design track.

Costumes, architecture and decor from antiquity to the renaissance.

Fall

College of Arts and Humanities - School of Performing Arts

THE 5289 - Period Costumes, Architecture and Decor II

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): THE 5288.

Costumes, architecture and decor from the Renaissance to present.

Spring

College of Arts and Humanities - School of Performing Arts

THE 5307 - Contemporary Theatre Practice**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): THE 3311, THE 3312, THE 3313, Restricted to Theatre majors or departmental consent.

Contemporary trends in plays and theatre production in the late 20th century.

Spring

College of Arts and Humanities - School of Performing Arts

THE 5385 - Dramatic Literature for Children**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MFA graduate program or C.I.

An in-depth study of the growth and development of dramatic literature for children.

Even Fall

College of Arts and Humanities - School of Performing Arts

THE 5425 - Women in Theatre**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the MFA/MA Theatre programs or C.I.

An overview of women's contributions to theatre.

Occasional

College of Arts and Humanities - School of Performing Arts

THE 5545 - Theatre for Social Change

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into the MFA/MA Theatre programs or C.I.

Theatre activists' impact on theatrical art forms.

Occasional

College of Arts and Humanities - School of Performing Arts

THE 5677 - Health and Wellness for the Performing Artist**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Theatre graduate programs or C.I.

Focus on performing artists' health and related topics.

Spring

College of Arts and Humanities - School of Performing Arts

THE 5910 - Research Methods in Theatre**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): MFA and MA in Theatre.

Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms.

Fall

College of Arts and Humanities - School of Performing Arts

THE 5917 - Directed Research

College of Arts and Humanities

THE 5937 - Special Topics

College of Arts and Humanities

THE 5945L - Theatre Practicum I**1 Credit Hours**

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 20

Prerequisite(s): Graduate status or C.I.

A laboratory course designed to develop students' practical working knowledge in Theatre.
Occasional

College of Arts and Humanities - School of Performing Arts

THE 5946L - Theatre Practicum II

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 20

Prerequisite(s): Admission into the graduate program, Theatre Practicum I.

A laboratory course designed to develop students' practical working knowledge in theatre.
Occasional

College of Arts and Humanities - School of Performing Arts

THE 5949 - Cooperative Education in Theatre

College of Arts and Humanities

THE 5957 - Study Abroad

College of Arts and Humanities

THE 6086C - Careers in Professional Theatre

3 Credit Hours

Class Hours: 2

Lab and Field Work Hours: 2

Contact Hours: 4

Prerequisite(s): Admission to the graduate program in Theatre or C.I.

Practical courses focusing on job search skills and other aspects of marketing yourself.
Spring

College of Arts and Humanities - School of Performing Arts

THE 6308 - Script and Score Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to MFA Musical Theatre program.

Representative works from the musical theatre repertoire analyzed as dramatic and musical literature.

Fall

College of Arts and Humanities - School of Performing Arts

THE 6507 - Dramatic Theory and Criticism

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission into Theatre graduate program and research methods course.
Examination of principles of dramatic criticism from Aristotle to the present day.

Fall

College of Arts and Humanities - School of Performing Arts

THE 6726 - Advanced TYA Seminar

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): THE 5910 and THE 6756.

Historical, theoretical, and international contexts shaping the field of Theatre for Young Audiences.
College of Arts and Humanities - School of Performing Arts

THE 6756 - Methods of Teaching Drama

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Admission to Theatre graduate program or C.I.
Methods of teaching drama in contained classroom settings to youth.

Fall

College of Arts and Humanities - School of Performing Arts

THE 6908 - Independent Study

College of Arts and Humanities

THE 6909 - Research Report

College of Arts and Humanities

THE 6918 - Directed Research

College of Arts and Humanities

THE 6938C - ST: Themed Experience Show Writing

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 3

Prerequisite(s): TPA 6187 or C.I.

Students learn to become versatile storytellers by exploring the process and methodology of show writing for theme parks, attractions, entertainment, immersive experiences, and exhibits.

Spring

College of Arts and Humanities - School of Performing Arts

THE 6946 - Internship

College of Arts and Humanities

THE 6947L - Theatre Practicum III

1 Credit Hours

Class Hours: 0

Lab and Field Work Hours: 20

Contact Hours: 20

Prerequisite(s): Admission into the graduate program, Theatre Practicum II.

A laboratory course designed to develop students' practical working knowledge in theatre.

Occasional

College of Arts and Humanities - School of Performing Arts

THE 6948 - Professional Internship

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to the MFA Acting program.

Field work as company members of the Orlando Shakespeare Theatre.

Even Fall, Odd Spring

College of Arts and Humanities - School of Performing Arts

THE 6949 - Cooperative Education in Theatre

College of Arts and Humanities

THE 6958 - Study Abroad

College of Arts and Humanities

THE 6971 - Thesis

College of Arts and Humanities - School of Performing Arts

THE 6971 - Treatise (Thesis or Research Report)

College of Arts and Humanities

THE 6973 - Thesis-Specialist

College of Arts and Humanities

Transportation Engineering

TTE 5204 - Traffic Engineering

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE 3810 or C.I.

Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 5531 - Active Mobility and Technologies: Synergy and Challenges

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGN 5555 or C.I.

The course explores the impact of information technologies on sustainable mobility and the transformation towards complete streets.

Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 5532 - Policy Aspects of Smart City Transportation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGN 5555 or C.I.

Provide an overview of the policy aspects of transportation in Smart Cities. Introduce policy implications of Big Data and Analytics in a Smart Cities.

Even Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 5805 - Geometric Design of Transportation Systems**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE 3810 or C.I.

Study of highway geometric design in the engineering of transportation systems.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 5835 - Pavement Engineering**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

EGN 3331C, CGN 3501C, CEG 4011C. Materials, analysis, evaluation, and management of pavement and pavement systems.

Even Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 5917 - Directed Research

College of Engineering and Computer Science

TTE 5937 - Special Topics

College of Engineering and Computer Science

TTE 6205 - Highway Capacity**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE 6256 or TTE 5204 or C.I.

Highway capacity for all functional classes of highway. Traffic signalization including traffic studies, warrants, cycle length, timing, phasing and coordination.

Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6256 - Traffic Operations

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE 4274 or C.I.

Fundamentals of traffic flow theory and applications to traffic operations on highways and streets. Work on real life traffic operations project and report results.

Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6270 - Intelligent Transportation Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE 6256 or TTE 5204 or C.I.

Theories and applications of intelligent vehicle highway systems in transportation engineering.

Odd Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6275 - Connected and Autonomous Vehicles

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE 3810 or C.I.

Explain Connected, Automated and Autonomous vehicles' technologies and current and future applications, their expected benefits for transportation safety, operation, social and economic, and potential impact.

Even Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6315 - Traffic Safety Analysis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): TTE 5805 or TTE 5204 or C.I.

Understanding crash research concepts, and identifying factors contributing to traffic crash occurrence.

Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6526 - Planning and Design of Airports**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Background of aviation and airport development, aircraft characteristics. Planning and design of airport components. Heliport and STOL ports and pavement and drainage design.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6533 - Mobility in Smart Cities: Technologies and Application Areas**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): CGN 5555 or C.I.

The course introduces students to research developments in intelligent transportation systems infrastructure with a focus on video-based data collection and networks connectivity.

Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6608 - Algorithms and Models for Smart Cities**3 Credit Hours**

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

STA 5206 or C.I. Cities as complex systems, urban geo-location data collection and processing, data exploration and geo-visualization, classification techniques, urban mobility models. and urban networks.

Odd Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6625 - Mass Transportation Systems

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): C.I.

Planning, design, construction, operation, and administration of mass transportation systems.

Occasional

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6667 - Discrete Choice Modeling in Transportation

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

TTE 4274 or STA 5206(or equivalent) or C.I. Multivariate regression analysis, individual choice theory, random utility frameworks, ordered and unordered response models, maximum likelihood approaches, and recent advances in the field.

Odd Fall

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6909 - Research Report

College of Engineering and Computer Science

TTE 6910 - Travel Technology and Analytics Capstone Course

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Completion of TTA core courses (HMG 6710, HMG 6449, ESI 6251, TTE 6667, TTE 6608) or C.I. permission.

Identification of problems and design, implementation, and evaluation of appropriate technological and analytical solutions to meet current and future needs in the global travel industry.

Spring

College of Engineering and Computer Science - Department of Civil, Environmental, and Construction Engineering

TTE 6918 - Directed Research

College of Engineering and Computer Science

TTE 6938 - Special Topics

College of Engineering and Computer Science

Urban and Regional Planning

URP 6711 - Sustainable Transportation Planning

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Admission to Master of Urban and Regional Planning program or C.I. Planning for multimodal transportation, including highway/automobile, public transit, pedestrian, bicycling and rail systems, to explore the social, economic and health implications to communities.

Occasional

College of Community Innovation and Education - School of Public Administration

Women's Studies

WST 5108 - Global Women in Crisis

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or C.I.

Examines how crisis shapes women's lives around the world through the lens of Feminist Theory from a global, multi-cultural perspective, combined with global feminist activism.

Fall

College of Arts and Humanities - Department of Women's and Gender Studies

WST 5347 - Research in Women and Gender Studies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing or senior standing, or C.I.

To explore feminist research methodologies and investigate relationships among feminist theory, research, social change, and gender equality as experienced at the workforce in private, public and non-profit spheres.

Even Fall

College of Arts and Humanities - Program in Women's Studies

WST 5601 - Theories in Gender Studies

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 0

Contact Hours: 3

Prerequisite(s): Graduate standing, Gender Studies graduate certificate standing, or C.I.

Foundational scholarship in gender studies, with emphasis on theoretical and interdisciplinary approaches to gender and sexuality.

Even Fall

College of Arts and Humanities - Program in Women's Studies

WST 5917 - Directed Research

College of Arts and Humanities

WST 5937 - Special Topics

College of Arts and Humanities

WST 5957 - Study Abroad

College of Arts and Humanities

Zoology**ZOO 5456C - Ichthyology****4 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 6

Contact Hours: 8

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Introduction to the biology of the fishes, their classification, evolution, and life histories.

Even Fall

College of Sciences - Department of Biology

ZOO 5463C - Herpetology**4 Credit Hours**

Class Hours: 2

Lab and Field Work Hours: 4

Contact Hours: 6

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories.

Material and Supply Fee: \$60.00 *Odd Spring*

College of Sciences - Department of Biology

ZOO 5475L - Field Ornithology

3 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 1

Contact Hours: 3

A comprehensive introduction and appreciation for the evolutionary history, diversity, ecology, biology, and behavior of birds such as disciplines, evolutionary biology and psychology.

Material and Supply Fee: \$30.00 *Odd Fall*

College of Sciences - Department of Biology

ZOO 5486 - Mammalogy

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 0

Contact Hours: 4

Prerequisite(s): Admission to the M.S. in Biology, Ph.D. in Conservation Biology, PSM in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Study of the diversity and biology of mammals from an evolutionary perspective.

Even Spring

College of Sciences - Department of Biology

ZOO 5745C - Neuroanatomical Pathways and their Neurotransmitters

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): Human/Comparative Anatomy, or Human/Animal Physiology or C.I.

Fundamental concepts of both morphological and functional organization of the nervous system. Primary emphasis on human structure.

Material and Supply Fee: \$15.00 *Occasional*

College of Medicine - Department of Molecular and Microbiology

ZOO 5748C - Clinical Neuroanatomy

5 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): ZOO 3733C Human Anatomy.

Provides the necessary knowledge to understanding the complexities of human nervous system, its normal and pathologic functions, relevant to practice of general medicine and/or neuroscientists.

Fall

College of Medicine - Department of Molecular and Microbiology

ZOO 5749C - Clinical Neuroscience

5 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 2

Contact Hours: 5

Prerequisite(s): ZOO 3733C and ZOO 3744, or ZOO 3733C and ZOO 4743C or ZOO 5748C, or equivalents.

Clinically oriented teachings of neuroscience areas including selected topics in neuropathology, neuro-oncology, neuroimmunology, neuropharmacology, and neurodiagnostics.

Spring

College of Medicine - Department of Molecular and Microbiology

ZOO 5758C - Vertebrate Histology

4 Credit Hours

Class Hours: 3

Lab and Field Work Hours: 3

Contact Hours: 6

Prerequisite(s): Graduate standing and college-level Human Anatomy, Human Physiology or Introduction to Histology.

Microanatomical detail plus appropriate developmental and functional considerations of major cell types, primary tissues, organs, and organ systems. Survey of modern animal-tissue microtechnique.

Spring

College of Medicine - Burnett School of Biomedical Sciences

ZOO 5917 - Directed Research

College of Sciences

ZOO 5937 - Special Topics

College of Sciences

ZOO 6737 - Clinically Oriented Human Anatomy

4 Credit Hours

Class Hours: 4

Lab and Field Work Hours: 6

Contact Hours: 10

Human Anatomy ZOO 3733 or equivalent. Clinically Orientated Human Anatomy (COHA) is an advanced course

focusing on integrated functional anatomy by means of problem-based learning and project-based learning.
Summer

College of Medicine - Burnett School of Biomedical Sciences

ZOO 6909 - Research Report

College of Sciences

ZOO 6918 - Directed Research

College of Sciences

ZOO 6938 - Special Topics

College of Sciences