



UNIVERSITY OF CENTRAL FLORIDA

UCF Stands For Opportunity®

2007-2008 Undergraduate Catalog

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The UCF Creed

Integrity, scholarship, community, creativity and excellence are the core values that guide our conduct, performance, and decisions. These values comprise the guiding principles that direct the actions of the University, its students, and its employees.

Integrity

I will practice and defend academic and personal honesty.

Scholarship

I will cherish and honor learning as a fundamental purpose of my membership in the UCF community.

Community

I will promote an open and supportive campus environment by respecting the rights and contributions of every individual.

Creativity

I will use my talents to enrich the human experience.

Excellence

I will strive toward the highest standards of performance in any endeavor I undertake.



UNIVERSITY OF CENTRAL FLORIDA

PEGASUS was the winged horse of the muses in Greek Mythology. It carried their hopes, their aspirations, and their poetry into the skies. PEGASUS is as futuristic as tomorrow's space exploration in our solar system and into the universe beyond. The seal also bridges the gap between the humanities and space technology.

UCF Stands For Opportunity®



Office of the President

Dear UCF Students and Prospective Students:

Welcome to the University of Central Florida, the university that stands for opportunity. I hope you share my excitement about what the academic year promises. How well it turns out for you will depend primarily on the effort you invest in your own intellectual and professional development. Invest wisely, and be assured that UCF faculty and staff pledge their best efforts in helping you attain your educational goals.

As you pursue your studies, please remember that a college education is not totally academic. It extends beyond the classroom, laboratory, or studio to campus clubs and organizations, concerts, plays, speeches, and athletic events. I hope that you will become involved in UCF campus life and that you will also make some commitment to serving your community. Besides being a force for campus and community improvement, the effort can be educationally rich and personally fulfilling.

Finally, I hope that you will take pride in your university. Like the Pegasus, our symbol, UCF is on the ascent, truly standing for opportunity. In over forty years of service, we have risen from promise to prominence: our students excel in national competitions and organizations; members of our faculty are known internationally for their research and teaching; a number of our men's and women's athletic teams are conference champions; and our football team competes in Division I-A. We have much to be proud of.

You have my best wishes for success and my assurance that UCF faculty and staff are committed to helping you complete your degree so that you can join a proud group of over 148,000 alumni.

Cordially yours,

A handwritten signature in black ink that reads 'John C. Hitt'.

John C. Hitt
President

An Equal Opportunity and Affirmative Action Institution



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 Director, Development Wayne Weinberg
 Director, Electrical Engineering and Computer Science Issa Batarseh
 Director, External Relations, and Interim Chair,
 Industrial Engineering and Management Systems Christian S. Bauer
 Director, Minority Engineering and
 Computer Science Program Bruce Furino
 Interim Chair, Civil and Environmental Engineering Avelino Gonzalez
 Chair, Engineering Technology Ronald Eaglin
 Chair, Mechanical, Materials and Aerospace Engineering Ranganathan Kumar
 Chair, Air Force ROTC Col. William G. Palmbly
 Chair, Army ROTC LTC Bryce Christensen

College of Health and Public Affairs

Interim Dean Joyce E. Dorner
 Associate Dean, Graduate Studies and Technology Stephen Holmes
 Associate Dean, Research Thomas Wan
 Associate Dean, Research and Graduate Studies Kenneth Adams
 Associate Dean, Student Affairs/Personnel Melvin Rogers
 Assistant Dean, Undergraduate Studies Pamela E. Kirby
 Director, School of Social Work John Ronna
 Director, Undergraduate Student Services Judith A. Sindlinger
 Chair, Communication Sciences and Disorders R. Jane Lieberman
 Chair, Criminal Justice and Legal Studies TBA
 Chair, Health Professions Diane Jacobs
 Chair, Public Administration Mary Ann Feldheim

College of Medicine

Dean Deborah German

College of Nursing

Dean Jean Leuner
 Associate Dean Linda Henning
 Associate Dean Jean Kijek

College of Optics and Photonics

Dean and Director Eric W. Van Stryland
 Director, Research and Administration James E. Pearson

Rosen College of Hospitality Management

Dean Abraham Pizam
 Associate Dean Stephen LeBruto
 Interim Chair, Hospitality Operations Dana Tesone
 Chair, Tourism, Events & Attractions Deborah Breiter

College of Sciences

Dean Peter Panoussis
 Associate Dean Michael Johnson
 Associate Dean Jack M. McGuire
 Associate Dean Haven C. Sweet
 Interim Chair, Anthropology Arlen Chase
 Interim Chair, Biology Martin Quigley
 Chair, Chemistry Kevin D. Belfield
 Interim Chair, Mathematics Piotr Mikusinski
 Chair, Physics Talat Rahman
 Chair, Political Science Roger B. Handberg
 Chair, Psychology Robert Dipboye
 Chair, Sociology Harold Corzine
 Interim Chair, Statistics & Actuarial Sciences David M. Nickerson
 Director, Nicholson School of Communication Mary Alice Shaver

SUMMER 2007 ACADEMIC CALENDAR

Summer 2007	Session A	Session B	Session C	Session D
	<i>6 Weeks</i>	<i>6 Weeks</i>	<i>12 Weeks</i>	<i>9 Weeks</i>
Application deadline for all New Undergraduate				
Freshmen Applicants and Transfers	March 1	March 1	March 1	March 1
Application deadlines for readmission	April 13	April 13	April 13	April 13
Registration and Add/Drop	Mar. 26 - May 13	Mar. 26 - June 24	Mar. 26 - May 13	Mar. 26 - May 13
Graduation Application (Intent to Graduate form)				
due in college advising office ¹	Mar. 5 - April 23	Mar. 5 - April 23	Mar. 5 - April 23	Mar. 5 - April 23
Registration for UCF Employees, State Employees, Non-degree, Transients and Audits				
(begins 3:00 p.m.)	May 11	June 22	May 11	May 11
Registration for Senior Citizen Audits, and STEP				
(begins 3:30 p.m.)	May 11	June 22	May 11	May 11
Residence halls open (1:00 p.m.)	May 12	June 23 (11:00 a.m.)	May 12	May 12
Classes begin	May 14	June 25	May 14	May 14
Late Registration ² and Add/Drop	May 14-18	June 25-29	May 14-18	May 14-18
Last day for full refund	May 18	June 29	May 18	May 18
Grade Forgiveness deadline	May 18	June 29	May 18	May 18
Payment Deadline ²	May 25, 2007 - Students registering from 3/26/07 through 5/18/07 July 6, 2007 - Students registering for Summer B only 5/19/07 through 6/29/07			
CLAST test (register by May 4)	June 2			
Withdrawal deadline	June 1	July 13	June 22	June 15
VA deferral payment deadline ²	July 27	July 27	July 27	July 27
Classes end; last day to remove incomplete ³	June 22	August 3	August 3	July 13
Final Examination Period		Given during last class meeting		
Residence halls close (noon)	June 23	August 4	August 4	July 14
Grades due in Registrar's Office	June 27	August 8	August 8	July 18
Grades Available on myUCF (begins 9:00 a.m.)	June 28	August 10	August 10	July 19
Commencement	August 4	August 4	August 4	August 4

NOTE: Dates are pending approval by the Florida Department of Education and subject to change. Consult the *Web Enrollment Guide* and online Academic Calendar (<http://www.ucf.edu/info>) for information.

All undergraduate degree-seeking students are **required** to attend Orientation **prior** to registration. Information on Orientation is mailed to all students upon acceptance to the University. If possible, examinations should not be scheduled on days or during times of religious holidays. Students are expected to notify their instructor in advance if they intend to observe a holy day of their religious faith. For additional information, contact the Office of Diversity Initiatives (MOD 12) at 407-823-6479.

¹ Ends at 5:00 p.m. on last day.

² \$100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. \$100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.

³ Incomplete grades **must** be removed within one year of the last day of the term or prior to graduation from the University, whichever comes first, else they will change to "F."

University Holidays and Special Events

Memorial Day Holiday May 28, 2007
 Independence Day Holiday July 4, 2007

2007 - 2008 FALL/SPRING ACADEMIC CALENDAR

	Fall 2007	Spring 2008
Application deadline for Graduate International students	Jan. 15	July 1, 2007
Application deadline for Undergraduate International students	March 1	Sept. 1, 2007
Application deadline for all New Undergraduate Freshmen Applicants	May 1	Nov. 1, 2007
Application deadline for New Undergraduate Transfers	July 1	Nov. 1, 2007
Application deadlines for readmission	July 13	Nov. 15, 2007
Graduation Application (Intent to Graduate form) due in college advising office ¹	Mar. 5 - Aug. 3	Oct. 15 - Dec. 3, 2007
Enrollment Appointments available on myUCF	Mar. 5	Oct. 8
Registration and Add/Drop	Mar. 26 - Aug. 19	Mar. 26 - Jan 6, 2008 and Oct. 30 - Jan 6, 2008
Residence halls open	Aug. 16 (11:00 a.m.)	Jan. 4 (1:00 p.m.)
Registration time for State Employees, UCF Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)	Aug. 17	Jan. 4
Registration for Senior Citizen Audits, and STEP (begins 3:30 p.m.)	Aug. 17	Jan. 4
Classes begin	Aug. 20	Jan. 7
Late Registration ² and Add/Drop	Aug. 20-24	Jan. 7-11
Last day for full refund	Aug. 24	Jan. 11
Grade Forgiveness deadline ¹	Aug. 24	Jan. 11
Payment deadline ²	Aug. 31	Jan. 18
CLAST test (register by Sept. 7-Fall / Jan. 18-Spring)	Oct. 6	Feb. 16
Withdrawal deadline	Oct. 12	Feb. 29
VA deferral payment deadline ²	Nov. 16	Apr. 4
Classes end; last day to remove incomplete ³	Dec. 3	Apr. 21
Final Examination Period	Dec. 4-10	Apr. 22-28
Residence halls close (noon)	Dec. 11	Apr. 29
Commencement	Dec. 14-15	May 1-3
Grades Due in Registrar's Office (noon)	Dec. 13	May 1
Grades Available on myUCF (begins 9:00 a.m.)	Dec. 15	May 3
<small>NOTE: Dates are subject to change. Consult the <i>Web Enrollment Guide</i> and online Academic Calendar (www.ucf.edu/info) for information. All undergraduate degree-seeking students are required to attend Orientation prior to registration. Information on Orientation is mailed to all students upon acceptance to the University. If possible, examinations should not be scheduled on days or during times of religious holidays. Students are expected to notify their instructor in advance if they intend to observe a holy day of their religious faith. For additional information, contact the Office of Diversity Initiatives (MH 329) at 407-823-6479.</small>		
<small>¹ Ends at 5:00 p.m. on last day. ² \$100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. ³ \$100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date. Incomplete grades must be removed within one year of the award date prior to graduation from the University, whichever comes first, else they will change to "F."</small>		
University Holidays and Special Events		
Labor Day Holiday	Sep. 3, 2007	
Homecoming Week (classes still held)	Oct. 29 - Nov. 3, 2007	
Veteran's Day Holiday	Nov. 12, 2007	
Thanksgiving Holiday	Nov. 22-24, 2007	
Martin Luther King Jr. Holiday	Jan. 21, 2008	
Spring Break	March 10-15, 2008	
Founders Day Honors Convocation (classes still held)	April 2, 2008	

Administrative Procedures Act Policy Statement

The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this *Undergraduate Catalog*. The *Undergraduate Catalog* is published once a year and cannot always reflect new and modified regulations. Statements in this *Undergraduate Catalog* may not be regarded in the nature of binding obligations on the institution 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 semester or in day and evening sections.

Students will be held accountable for the requirements, policies, and procedures described in this *Undergraduate Catalog*. Additional information or clarification of any policy or procedure may be obtained from the specified office.

Non-Discrimination Policy (including sexual harassment)

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, or veteran's status 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:

1. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or enrollment;
2. Submission to or rejection of such conduct by an individual is used as the basis for employment or enrollment decisions affecting such individual; or
3. 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 Orlando 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/>.

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, 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 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.

Campus Alcoholic Beverages Policy

The sale, service, possession and consumption of alcoholic beverages shall comply with state and federal laws, city and county ordinances, and the licensing agreement with on-campus distributors which allows for the sale and service of alcoholic beverages. In addition the University has formulated the following policies governing the sale, service, possession and consumption of alcoholic beverages on campus.

Guidelines

The sale and service of alcoholic beverages to persons younger than 21 years of age is prohibited. Possession or consumption of alcoholic beverages is prohibited by persons younger than 21 years of age.

Possession and consumption of alcoholic beverages in open or unsealed

containers is prohibited except in designated areas or as approved with special events.

Individuals are responsible for their actions regardless of their mental or physical state as it may be affected by mind-altering chemicals such as alcohol and other drugs.

Student organizations may develop more stringent regulations regarding alcohol use.

Locations

The sale of alcoholic beverages to individuals of legal age will be permitted in licensed areas by licensed on-campus distributors.

The sale or service of alcoholic beverages to individuals of legal age will be permitted at other select campus locations for catered functions by properly authorized distributors.

The serving, possession or consumption of alcohol by individuals of legal age may be permitted in private residential rooms in the residence halls and other on-campus or affiliated housing unless otherwise prohibited by the governing organization. Consumption of alcoholic beverages in public or common areas within on-campus residential units shall follow guidelines provided by their governing organization, and local, state and federal law.

Approval Procedures: Student Groups

Prior approval for students or student organizations to host an event where alcoholic beverages are present in non-licensed campus locations must be obtained from the Director of Student Leadership Programs.

The following information must be supplied by the student organization and approved by the appropriate university officials, no less than 15 calendar days prior to the event(s). These arrangements include but are not limited to: sponsoring organization and nature of event; date, beginning and ending times, and location of event; number in attendance and method of registering guests; method of designation for those of age/underage; contained area where alcohol consumption is permitted; type of alcohol along with food and alternative non-alcoholic beverages to be provided; method of security including number of campus police officers; person to be contacted at event in case of questions or problems.

Approval Procedures: Non-Student Groups

When an event is properly scheduled to take place in a location for which a campus concession holds a license, alcoholic beverages are to be sold through the concession and their license. Groups or organizations who seek to sell beer or wine along with a non-alcoholic choice at other locations on campus must obtain approval to secure a beer or wine license from the Director of Business Services prior to making application for the license. With approval the license is then to be obtained by the organization from the Alcoholic Beverages and Tobacco Division of the Department of Business Regulations of the State of Florida. Off-campus groups or organizations who seek to serve alcoholic beverages in a location and situation which does not require a license must obtain prior approval to serve alcohol on campus from the Director of Business Services.

For the complete and definitive version of the Drug-Free Workplace/Drug-Free Schools Policy Statement, please go to: <http://www.goldenrule.sdes.ucf.edu>.

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 coursework, 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 network adaptor. Recommended configurations can be found on the University's Web site at http://www.cstore.ucf.edu/Info.php?name=PC_Standards.

Undeclared Policy

All students at the University of Central Florida are expected to officially declare a major prior to earning 45 college credit hours (this includes credits earned from CLEP, Dual Enrollment, AP, and IB). An administrative hold to prevent future university registration will be placed on the records of all students that have not declared a major. Students must meet with an academic advisor (within Student Development and Enrollment Services, the colleges, or regional campuses) to have the hold released.

Student Responsibility for University Communication

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.

To avoid missing important communications from the University, students must ensure that the University has an up-to-date "preferred" e-mail address, as well as both permanent and mailing (local) addresses.

It is critical that students maintain and regularly check their preferred e-mail account for official announcements and notifications. Communications sent to an address on record will be deemed adequate notice. The University does not accept responsibility if official communication is rejected or fails to reach a student who has not notified the University of a change of preferred e-mail or postal mailing address.

Please ensure that your preferred e-mail address, as well as your permanent and mailing (local) addresses and telephone number, are current with the University at all times.

Students can update their contact information online through the UCF 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 in most cases. Specific procedures included in specific sections of this catalog and the Golden Rule.

Accreditation

The University of Central Florida, a member institution of the State University System, formerly was named Florida Technological University. The name was changed by action of the Florida Legislature on December 6, 1978.

The University of Central Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award degrees at the associate, baccalaureate, master's, and doctoral levels. At the undergraduate level, the following programs (disciplines) have been granted accreditation:

College/Discipline	Accrediting Body
Arts and Humanities Music, Music Education	National Association of Schools of Music (NASM)
Burnett College of Biomedical Sciences Medical Laboratory Sciences	National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
Business Administration (all disciplines)	The Association to Advance Collegiate Schools of Business (AACSB)
Education (all disciplines)	State Accreditation - Florida Department of Education; National Council for Accreditation of Teacher Education (NCATE)
Engineering and Computer Science Aerospace, Civil, Computer, Electrical, Environmental, Industrial, and Mechanical Eng Computer Science	Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET) Computing Accreditation Commission (CAC) of ABET
Engineering Technology (Electrical Engineering Technology and Engineering Technology)	Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
Health and Public Affairs Athletic Training	Committee on Accreditation of Athletic Training Education
Cardiopulmonary Science	Committee on Accreditation for Respiratory Care in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP) of AMA
Health Information Management	Commission on Accreditation for Health Informatics and Information Management Education (CAHIM)
Radiologic Sciences	Joint Review Committee on Education in Radiologic Technology (JRCERT)
Social Work	Council on Social Work Education (CSWE)
Hospitality Management Hospitality Management	Accreditation Commission for Programs in Hospitality Administration
Nursing Nursing	Commission on Collegiate Nursing Education (CCNE), Florida Board of Nursing
Sciences Chemistry	American Chemical Society (ACS) Committee On Professional Training

UCF is listed in *Transfer Credit Practices on Designated Educational Institutions* with the highest level of credit acceptability. This handbook is published by the American Association of Collegiate Registrars and Admission Officers, and lists the acceptability of transfer credits based upon the reporting institutions in the states, commonwealths, territories, and selected international institutions.

The University

The University of Central Florida is one of the most dynamic universities in the country. Offering more than 200 degree programs, it has become an academic and research leader in numerous fields, such as optics, modeling and simulation, engineering and computer science, business administration, education, the sciences, medicine, hospitality management and digital media.

UCF's 1,415-acre main campus provides modern facilities with 600 acres set aside for lakes, woods and an arboretum. UCF now has 12 colleges, including the new College of Medicine and the new College of Nursing. Nearly 47,000 students attend classes on UCF's main campus and its 12 regional campuses located throughout Central Florida.

The incoming freshmen class for the academic year 2006-07 of 4,133 students continues UCF's rise in academics with an average SAT score of 1200 and high school grade-point average of 3.7. The Burnett Honors College incoming class has an average SAT score of 1352 and a grade-point average of 4.1. First Time In College students include 27 National Merit Scholars, 115 AP Scholars and eight National Hispanic Scholars.

The UCF Libraries offer more than 1.7 million volumes, nearly 16,368 periodical subscriptions and 9,855 electronic journals.

UCF has an 85,000-foot Recreation and Wellness Center complete with a three-story climbing wall, an indoor track and fitness equipment. The Student Union has computer labs, study lounges, meeting rooms, eating establishments and a shopping mall. A Health Center is a full-service health clinic with on-site professionals, X-ray capabilities, a pharmacy, a medical laboratory and physical therapy services. A 10,000-seat Convocation Center and a 45,000-seat on-campus football stadium are scheduled for completion in Fall 2007. Housing includes on-campus and affiliated apartments for 10,000 students.

UCF promotes a diverse and inclusive environment. UCF students come from every Florida county, 50 states and 126 countries. Study abroad programs allow UCF students to study and conduct research with 98 institutions in 36 countries.

In 2005-06, UCF professors received more than \$100 million in research funding for the second consecutive year. Undergraduate Research offers seven different research programs, including paid research positions for undergraduates and graduate students.

Online@UCF, The Virtual Campus

<http://online.ucf.edu>

The UCF Virtual Campus provides opportunities for students to enroll in credit courses and select degree and certificate programs delivered over the Internet. The instructional design of these courses maintains a high-quality learning environment for nontraditional and campus-based students. The course materials and methods were developed by UCF faculty to maximize the learner's achievement of course and program objectives.

Online courses are identified in the online Class Schedule Search (<https://my.ucf.edu>). Select the Advanced Search dialog and use the drop-down list next to the Mode of Instruction to search for the descriptive value of "World Wide Web (W)." Complete listings of all fully and partially Web-based classes from the class schedule are also excerpted and available on the Virtual Campus Web site at <http://online.ucf.edu>. Web-related instruction modes are:

MIXED-MODE/REDUCED SEAT TIME (M): These courses include electronic media-based instruction that substitutes for some classroom time (reduced seat time).

WORLD WIDE WEB (W): These courses are delivered entirely over the Internet. They may require proctored examinations and may include opportunities for face-to-face orientations, but there will be no class attendance requirements.

These types of courses will require access to the Internet, Web-browsing knowledge, ability to use email, and basic computer skills such as word processing. Students can also expect to encounter similar Internet requirements in any course offered by UCF, regardless of the specified instruction mode. For information about degree and certificate programs available online, visit <http://online.ucf.edu>, or write to online@ucf.edu.

Center for Distributed Learning

3100 Technolgy Parkway
Orlando, 32826
Director: Randall Upchurch;
407-823-4910; rupchurc@mail.ucf.edu

UCF's virtual campus is supported and facilitated by the Center for Distributed Learning. The Center's mission is to provide support to students, faculty, and staff in the development and planning of distributed

learning courses and programs. The Center serves as a clearinghouse for processes and resources, providing planning and marketing support for off-campus and distributed learning credit programs. The Center also coordinates the University's standards and accreditation changes resulting from Web-based instruction. For information about degree and certificate programs available online, visit <http://online.ucf.edu>, or write to online@ucf.edu.

Regional Campuses

<http://www.regionalcampuses.ucf.edu>

The University of Central Florida also offers an opportunity to complete a number of programs through UCF Regional Campuses. Strategically located within an 80-mile radius of the UCF Orlando campus, the multiple non-residential locations partner with six Florida community 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. Programs include 20 Bachelor's programs, 19 minors, 11 master's degrees, and 6 graduate certificates with each of the UCF Colleges represented within the system. With close proximity to Orlando, resources are available at UCF and the UCF Regional Campuses, such as admissions, registration, financial aid, advising, student clubs and organizations, disability services, veteran's affairs, "smart classrooms," libraries, computer labs, and more.

UCF Regional Campuses provide a wide variety of learning styles and schedules, including web class availability. Admissions, Registration, Financial Assistance and Advising professionals are located at the following campuses: UCF Cocoa, UCF Daytona Beach, UCF Palm Bay, UCF Sanford/Lake Mary, and UCF South Lake. Times and dates for all courses are listed online prior to registration each term and all registration periods correspond to the overall UCF schedule.

The Central Florida Higher Education Consortium, known as DirectConnect to UCF, is a unique partnership between Brevard Community College, Lake Sumter Community College, Seminole Community College and Valencia Community College and UCF. This agreement provides entry to AA and AS graduates to UCF as an enhancement to the FL state-mandated 2 + 2 agreement. Students entering UCF as a DirectConnect to UCF student are admitted according to the UCF policies when AA or AS degrees are awarded.

All locations provide students with an opportunity to enroll in selected courses (junior and senior level) contributing to undergraduate and graduate degrees in a variety of disciplines within the university. As a UCF student, students may register full time or part time for courses at any of the locations without additional paperwork. For the most current information on any of the multiple UCF Regional Campus locations, programs or class schedules, check the website at <http://www.regionalcampuses.ucf.edu>.

Administration

UCF Regional Campuses Administration

12201 Research Parkway, Suite 101
Orlando, 32626; 407-823-4547

<i>Vice Provost, UCF Regional Campuses</i>	David Harrison
<i>Senior Administrative Assistant</i>	Dania Suarez
<i>Asst. Vice President, Academic Programs</i>	Bernard Jensen
<i>Coordinator, Statistical Research</i>	Charles Otto
<i>Facilities Scheduler</i>	Denise Devlin
<i>Asst. Vice President, Student Services</i>	A.J. Range
<i>Administrative Assistant</i>	Gloria Jimenez
<i>Asst. VP, RC Transfer Admission & Enrollment/Marketing</i>	Angé Peterson
<i>Assoc. Director, RC Enrollment Services</i>	Deborah Bradford
<i>Marketing Account Executive</i>	Michelle Fuentes
<i>Coordinator, Web Administrator</i>	Tony Recascino
<i>Senior Art Specialist</i>	Mary Lou Wade
<i>Coordinator, Statistical Research</i>	Jeanne Walker
<i>Office Manager</i>	Valerie Brackman
<i>Director, Academic Advising</i>	Judy Boyte
<i>Director, Business Affairs</i>	David Laney
<i>Administrative Assistant</i>	Jeanette Holder
<i>Assoc. Director, Academic Support Services</i>	Vicky Matthews
<i>Assoc. Director, Head of Partnership Library Services</i>	TBA
<i>Coordinator, Computer Technology</i>	Kirk Henry

Central Region**(UCF Downtown, UCF West Orlando, UCF South Orlando, UCF Osceola)**Director, Academic Support Services Edgar Martinez
Assistant Director, Academic Support Services Jim Weaver**Eastern Region****(UCF Daytona Beach, UCF Heathrow, UCF Sanford/Lake Mary)**Director, Daytona Beach Campus Linda Bradley
Assoc. Director, Academic Support Services Tena Harris
Director, RC Student Services Diana Weidman
Assistant Director, Enrollment Services Raphael Robinson
Senior Admissions Registrar Sheri Newble-Dunn
Coordinator, Financial Aid Heidi Shaw
Coordinator, Academic Support Services Leeann Davis
Coordinator, Academic Support Services Darryl Greeley
Coordinator, Computer Technology Jason Mayer
Assoc. VP and Director, UCF Heathrow
and Sanford/Lake Mary David Mealor
Assoc. Director, Academic Support Services Sean Armstrong, Jr.
Coordinator, Academic Support Services Cynthia Thomas**Southern Region****(UCF Cocoa, UCF Palm Bay)**Assoc. VP Academic Affairs and Interim Campus Director,
Cocoa/Palm Bay Denise Young
Director, Academic Support Services Lauren Miller
Assistant Director, UCF Palm Bay Linda Puritz
Director, RC Student Services Terry Exum
Coordinator, RC Student Services James C. Smith, Jr.
Assistant Director, Enrollment Services Randall Brumfield
Coordinator, Academic Support Services Nick Pantloni
Coordinator, Academic Support Services Angel Edgecombe
Coordinator, Academic Support Services Angie Jones
Coordinator, Academic Support Services John King
Coordinator, Academic Support Services Sheryl Schagen
Coordinator, Computer Technology Sue Sorensen**Western Region****(UCF South Lake, UCF Ocala)**Assistant Vice President, Academic Affairs Cecelia Rivers
Interim Assoc. Director, Academic Support Services Tanya Armstrong
Director, RC Student Services Pamela Brady
Assistant Director, RC Enrollment Services Christy Pansinis
Coordinator, RC Enrollment Services Kecia Osbourne
Coordinator, RC Enrollment Services
(Financial Aid) Shellie Thomas-Small
Coordinator, Academic Support Services Selena Forrester
Coordinator, Academic Support Services TBA
Coordinator, Academic Support Services Robin Tinsley
Coordinator, Computer Technology Mei Wong**UCF Cocoa****(321) 433-7821****(In partnership with Brevard Community College)****Undergraduate Degree Programs**Applied Science (Industrial Operations, or Supervision &
Administration Track) (B.A.S.) Office of Interdisciplinary Studies
Business Administration (B.A.) *College of Business Administration*
Communication Sciences and Disorders (B.A., B.S.) *College of
Health and Public Affairs*
Criminal Justice (B.A., B.S.) *College of Health and Public Affairs*
Elementary Education (B.S.) *College of Education*
Engineering Technology – Operations (B.S.E.T.) *College of
Engineering and Computer Science*
Exceptional Student Education (B.S.) *College of Education*
History (B.A.) *College of Arts and Humanities*
Interdisciplinary Studies (B.A., B.S.) *Office of Interdisciplinary Studies*
Legal Studies (B.A., B.S.) *College of Health and Public Affairs*
Nursing (B.S.N., R.N. to B.S.N.) *College of Nursing*
Political Science (B.A.) *College of Sciences*
Aerospace Engineering (third year) (B.S.A.E.) *College of Engineering
and Computer Science*
Psychology (B.S.) *College of Sciences*
Sociology (B.A.) *College of Sciences***Undergraduate Minors**Anthropology in Multicultural Studies
Business (For non-business majors only)
Communication Sciences and Disorders
Criminal JusticeEnglish – Writing
Exceptional Education
Health Services Administration
History
Hospitality Management
Interpersonal Communication
Legal Studies
Organizational Communication
Political Science
Psychology
Religious Studies
Social Sciences – Interdisciplinary
Sociology
Women's Studies**Graduate Degree Programs**Criminal Justice (M.S.) *College of Health and Public Affairs*
Educational Leadership (M.Ed.) *College of Education (Cohort)*
Engineering FEEDS (M.S.) *College of Engineering*
Health Sciences: Health Services Administration (M.S.) *College of
Health and Public Affairs*
Industrial Engineering and Management Systems (M.S.) *College of
Engineering and Computer Science (Cohort)*
Public Administration (M.P.A.) *College of Health and Public Affairs
(Cohort)*
Reading Education (M.Ed.) *College of Education***UCF Daytona Beach****(386) 506-4021****(In partnership with Daytona Beach Community College)****Undergraduate Degree Programs**Applied Science (Supervision & Administration Track) (B.A.S.) Office
of Interdisciplinary Studies
Business Administration (B.A.B.A.) *College of Business
Administration*
Criminal Justice (B.A., B.S.) *College of Health and Public Affairs*
Early Childhood Education (B.S.) *College of Education*
Elementary Education (B.S.) *College of Education*
Exceptional Student Education (B.S.) *College of Education*
Interdisciplinary Studies (B.A., B.S.) *Office of Interdisciplinary
Studies*
Legal Studies (B.A., B.S.) *College of Health and Public Affairs*
Nursing (B.S.N., R.N. to B.S.N.) *College of Nursing*
Photography (B.S.) *College of Arts and Humanities*
Political Science (B.A.) *College of Sciences*
Psychology (B.S.) *College of Sciences*
Social Sciences (B.S.) *Office of Interdisciplinary Studies*
Sociology (B.A.) *College of Sciences*
Technical Education and Industry Training (B.S.) *College of
Education (Web-based)***Undergraduate Minors**Anthropology in Multicultural Studies
Business (For non-business majors only)
Criminal Justice
Early Childhood Education
English – Writing
Exceptional Education
Health Services Administration
History
Hospitality Management
Interpersonal Communication
Legal Studies
Organizational Communication
Political Science
Psychology
Religious Studies
Social Sciences – Interdisciplinary
Sociology**Graduate Degree Programs**Clinical Psychology (M.A.) *College of Sciences*
Criminal Justice (M.S.) *College of Health and Public Affairs*
Educational Leadership (M.Ed.) *College of Education (Cohort)*
Health Sciences: Health Services Administration (M.S.) *College of
Health and Public Affairs*
Reading Education (M.Ed.) *College of Education*
Social Work (M.S.W.) *College of Health and Public Affairs*
Vocational Education (M.A.) *College of Education (Web-based)*

University of Central Florida

UCF Downtown

(407) 317-7700
Ying Academic Center
26 West Pine St.
Orlando, FL 32801

UCF Heathrow

(407) 531-5450
(In partnership with Seminole County Community College)

Graduate Degree Programs

Industrial and Organizational Psychology (M.S.) *College of Sciences (Cohort)*

Management Information Systems (P.M.I.S.)* *College of Business Administration (Cohort)*

Reading Education (M.Ed.) *College of Education (Cohort)*

*Administered in association with the Executive Development Center of the College of Business Administration

This location provides course work, junior and senior level, contributing to undergraduate degrees. Please check the schedule for course offerings.

UCF Leesburg

(352) 536-2113
(In partnership with Lake-Sumter Community College)

Undergraduate Degree Programs

Elementary Education (B.S.) *College of Education*
Nursing (R.N. to B.S.N.) *College of Nursing*

Undergraduate Minors

English – Writing
Health Services Administration
History
Legal Studies
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

UCF Ocala

(352) 854-2322, ext. 1818
(In partnership with Central Florida Community College)

Undergraduate Degree Programs

Applied Science (B.A.S.) *Office of Interdisciplinary Studies*
Business Administration (B.A.) *College of Business Administration*
Elementary Education (B.S.) *College of Education*
Nursing (R.N. to B.S.N.) *College of Nursing*
Psychology (B.S.) *College of Sciences*

Undergraduate Minors

English – Writing
Health Services Administration
History
Legal Studies
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

UCF Osceola

(407) 856-6585
(In partnership with Valencia Community College)

Undergraduate Degree Programs

Applied Science (B.A.S.) *Office of Interdisciplinary Studies*
Business Administration (B.A.) *College of Business Administration*
Elementary Education (B.S.)* *College of Education*
Exceptional Student Education (B.S.)* *College of Education*
Psychology (B.S.) *College of Sciences*
*Admission by cohort only. Please see adviser for further information.

Undergraduate Minors

English – Writing
Health Services Administration
History
Legal Studies
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

UCF Palm Bay

(321) 433-7995
(In partnership with Brevard Community College)

Undergraduate Degree Programs

Business Administration (B.A.) *College of Business Administration*
Early Childhood Education (B.S.) *College of Education*
Interdisciplinary Studies (B.A., B.S.) (Very limited in scope. Please see an advisor.) *Office of Interdisciplinary Studies*
Psychology (B.S.) *College of Sciences*

Undergraduate Minors

Criminal Justice
Early Childhood Education
English – Writing
Health Services Administration
History
Legal Studies
Organizational Communication
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

Graduate Degree Programs

Business Administration (P.M.B.A.)* *College of Business Administration*

*Administered in association with the Executive Development Center of the College of Business Administration.

UCF Sanford/Lake Mary

(407) 328-2471
(In partnership with Seminole Community College)

Undergraduate Degree Programs

Applied Science (B.A.S.) *Office of Interdisciplinary Studies*
Business Administration (B.A.) *College of Business Administration*
Criminal Justice (B.A., B.S.) *College of Health and Public Affairs*
Elementary Education (B.S.) *College of Education*
Interdisciplinary Studies (B.A., B.S.) *Office of Interdisciplinary Studies*
Legal Studies (B.A., B.S.) *College of Health and Public Affairs*
Psychology (B.S.) *College of Sciences*

Undergraduate Minors

Business (For non-business majors only)
Criminal Justice
English – Writing
Health Services Administration
History
Interpersonal Communication
Legal Studies
Organizational Communication
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

UCF South Lake

(352) 536-2113
(In partnership with Lake-Sumter Community College)

Undergraduate Degree Programs

Applied Science (B.A.S.) *Office of Interdisciplinary Studies*
Business Administration (B.A.) *College of Business Administration*
Early Childhood Education (B.S.) *College of Education*
Elementary Education (B.S.) *College of Education*
Interdisciplinary Studies (B.A.) (Very limited in scope. Please see an advisor.) *Office of Interdisciplinary Studies*
Psychology (B.S.) *College of Sciences*
Sports and Fitness (B.S.) *College of Education*

Undergraduate Minors

Business (For non-business majors only)
Early Childhood Education
English – Writing
Health Services Administration
History
Legal Studies
Political Science
Psychology
Interdisciplinary
Sociology

UCF South Orlando**(407) 856-6585**

7300 Lake Ellenor Drive, Orlando, FL 32809

This location provides course work (junior and senior level) contributing to undergraduate degrees. Please check the schedule for course offerings.

UCF West Orlando**(407) 582-5500****(In partnership with Valencia Community College)****Undergraduate Degree Programs**

Applied Science (B.A.S.) Office of Interdisciplinary Studies
 Business Administration (B.A.) *College of Business Administration*
 Electrical Engineering (third year) (B.S.E.E.) *College of Engineering and Computer Science*
 Interdisciplinary Studies (B.A.) (Very limited in scope. Please see an advisor.) *Office of Interdisciplinary Studies*
 Psychology (B.S.) *College of Sciences*

Undergraduate Minors

English-Writing
 Health Services Administration
 History
 Legal Studies
 Political Science
 Psychology
 Social Sciences – Interdisciplinary
 Sociology

Central Florida Research Park

The Central Florida Research Park, adjacent to the main UCF campus, is a University-related research park established as a result of legislation passed by the Florida Legislature in 1978. The Research Park is a cooperative effort between UCF, the Orange County Research and Development Authority, and the Orange County Board of County Commissioners (which appoints the members of the Authority). The governing body of the Research Park is the Orange County Research and Development Authority.

The objectives of the Central Florida Research Park are in keeping with the legislative action that enabled its creation "to encourage and promote the establishment of research and development activity combining the resources of institutions of higher learning, private sector enterprise involved in pure or applied research, and state or federal governmental agency research."

The ultimate goal of University-related research parks is to establish an academic/industrial community. The University and officials of the Central Florida Research Park believe that the potential for the establishment of close ties between the University and industry will create an environment conducive to the location of research-oriented industry in the Research Park. This activity will enrich and support the academic, teaching, and research programs of the University. The University, in turn, can provide the necessary expertise and human resources to enhance the research and development activities required and planned by Research Park residents.

The Central Florida Research Park consists of over 1,000 acres of land. Businesses desiring a "university relationship" can purchase or lease land in the Research Park on which to construct a facility or can lease space for office, office/lab, or light manufacturing activities.

Research Park tenants are involved with the University of Central Florida through sponsored research, using faculty as consultants, and using graduate and undergraduate students for intern programs and part-time employment. Research Park tenants can also contract with the University for use of the library, computer resources, and laboratory facilities. Cooperative projects range from technical research to developing business plans and employee training programs.

Endowed Chairs

Endowed chairs are established under the Florida Major Gifts Trust Fund, which provides \$420,000 in state funds to match \$600,000 in contributions from private sources within a five-year period.

Phillips-Schenck Chair in American Private Enterprise: Created in 1980 as the focal point for a continual dialog on major economic issues, comparative economic systems, and economic decision-making in business. *Chair:* TBA.

Charles N. Millican Chair in Computer Science: Created in 1983 and dedicated to probing the frontiers of computer science, with emphasis on the direction that the discipline will take over the next decade. *Chair:* Narsingh Deo.

William S. and Alice M. Jenkins Chair in Community Arts: Created in 1986 to enable UCF to design and oversee programs covering art administration, art therapy, and art education within the Central Florida community. *Chair:* Kevin Haran.

Carl H. Galloway Chair for Excellence in Business: Created in 1986 to honor Carl Galloway, a pioneer in telecommunications. The purpose is to enhance scholarly activity in teaching and research in the College of Business Administration. *Chair:* Shelby Gerking.

The Cobb Family Eminent Chair in Optical Sciences and Engineering: Created in 1988 to support the work of an internationally recognized scholar in laser and optical sciences. *Chair:* George I. A. Stegeman.

Darden Eminent Scholar Chair in Restaurant Management: Created in 1990 to develop a program of excellence in restaurant management. This chair, the first of its kind in the country, also serves as a critical resource for the hospitality industry. *Chair:* William Fisher.

SunTrust, N.A. Eminent Chair in Banking for Teaching Excellence: Created in 1989 to attract a nationally or internationally prominent expert in banking with a strong commitment to undergraduate, graduate, and executive development. *Chair:* Stanley Smith.

Al and Nancy Burnett Eminent Scholar Chair in Accounting: Created in 1989 to support an exceptional faculty member in the School of Accounting. *Chair:* Robin W. Roberts.

Bert Fish Memorial Eminent Scholar Chair: Created in 1990 to establish an endowed chair in nursing education. This is the first chair to be established at the Daytona Campus. It is designed to improve nursing education and ease the shortage of nurses. *Chair:* Angeline A. Bushy.

Lockheed Martin Academy in Math and Science Education: Created in 1992 to stress content enhancement and problem solving approaches in the teaching of science and mathematics. *Chair:* Lisa A. Dieker.

CFHLA Eminent Scholar Chair in Hotel Management: Created in 2002 to support the teaching and research of an internationally recognized scholar in hotel management. *Chair:* TBA.

Linda Chapin Eminent Scholar Chair in Tourism Management: Created in 2002 to support the teaching and research of an internationally recognized scholar in tourism management. *Chair:* Abraham Pizam.

William Peeper Eminent Scholar Chair in Destination Marketing: Created in 2002 to support the teaching and research of an internationally recognized scholar in destination marketing. *Chair:* TBA.

Mildred W. Coyle Eminent Scholar Chair: Created in 2000 to support the teaching and research of an internationally recognized scholar in various disciplines of professional education. *Chair:* TBA.

Robert N. Heintzelman Eminent Scholar Chair: Created in 2002 to conduct research into the determination of the basic cause of greed in humanity and to determine the appropriate manner and methods of eliminating the cause of greed and fostering altruism. *Interim Chair:* Edward H. Robinson, III.

Devos/Orlando Magic Sport Business Management Endowed Scholar Chair: Created in 2004 to attract a nationally or internationally prominent scholar in the field of sports, with a strong commitment to graduate sport business management programs. *Chair:* Richard E. Lapchick.

Orange County Eminent Scholar: Created in 2004 to attract a nationally or internationally prominent scholar to conduct research in his/her primary field and to assist in the development of research, programs, and support services for the Institute for Economic Competitiveness, College of Business Administration. *Chair:* TBA.

Florida Photonics Center of Excellence Eminent Scholar Chair of Nanophotonics: Created in 2003 to strengthen and support teaching and research in the field of nanophotonics at the College of Optics and Photonics. *Chair:* Dennis Deppe.

Lucent Corporation Chair in Computer Science: Created in 2005 in recognition of the university's leadership in the Florida High Tech Corridor and the FHTC Council's objective of attracting, retaining, and growing tech-based industry in our region and in the preparation of the workforce needed for our region. *Chair:* Mubarak A. Shah.

Beat M. and Jill L. Kahli Endowed Chair in Oncology Nursing: Created in 2005 to support work with researchers and clinicians in helping to improve the lives of cancer survivors. *Chair:* Karen Dow.

Chatlos Foundation Endowed Fund: Created in 1996 to support a professor in minority health issues, award scholarships to nursing students, purchase supplies, and maintain the equipment at Community Nursing Centers and the Nursing Skills Laboratory. *Chair:* Emma "E.J." Brown.

Kenneth G. Dixon Eminent Scholar Endowed Chair in Accounting: Created in 2004 as a key component of the Dixon School of Accounting. *Chair:* TBA.

Howard Phillips Chair in Real Estate: Created in 2005, as a key component of the Phillips School of Real Estate. *Chair:* TBA.

University of Central Florida

University Ombuds Office

Ombuds Officer: Vicky Brown; MH 243; 407-823-6440

The Office of the Ombuds Officer provides members of the University community assistance and advice regarding concerns related to the University. These services are available to every member of the University community: students, staff, faculty, and others. Any type of concern may be brought to the attention of this office: academic, financial, housing, consumer, work-related, or personal. The University Ombuds Officer is a neutral facilitator, and will listen to concerns, help individuals explore options, offer suggestion and advice, and assist in the resolution of the concern. Referral and direction to appropriate individuals and offices, and clarification of University policies and procedures are services of the office. All proceedings in individual cases will be held confidential by the Ombuds Officer unless otherwise authorized by the complainant, or otherwise required by applicable law, including without limitation, Chapter 119, Florida Statutes. The University Ombuds Office is located in Millican Hall, Suite 243, room 247. Appointments may be made by calling 407-823-6440.

Office of Undergraduate Studies

Interim Dean: Alison Morrison-Shetlar; CL1 207B; 407-823-3544

The Office of Undergraduate Studies supports the colleges in their curricular planning, collaborates with faculty curricular oversight, works with faculty and administrators to assure the strength of university wide programs such as general education, and advocates for an undergraduate education that offers an outstanding learning experience to UCF students. Interdisciplinary academic programs such as the Bachelor of Applied Sciences and the Interdisciplinary Studies Program are part of this office as is the Office of Academic Services. Also reporting to the Dean of Undergraduate studies are the Division of Continuing Education, the Office of Experiential Learning, the Faculty Center for Teaching and Learning, the Office of McNair and RAMP Scholars Programs, the Office of Undergraduate Research, and the Coordinator of Special Undergraduate Programs. The Dean serves as the final appeal for all undergraduate academic appeals.

Academic Services

Associate Dean: David R. Dees; MH 210; 407-823-2691

This office is responsible for administering State of Florida and University academic policies pertaining to academic record changes, curriculum file management, the degree audit program, and University-wide academic policies and graduation requirements. The primary goal of the office is to apply these policies fairly, promptly and evenly according to established guidelines, to provide a prompt response to requests from students, faculty, and staff and to maintain accurate and effective computer records for advisement and graduation certification.

International Services Center

Director: Nataly Chandia; CMMS (Building #81); 407-823-2337

The International Services Center (ISC), a unit of the Division of Graduate Studies, offers assistance and information to the University of Central Florida international community. The ISC provides leadership, advocacy and support services for current international students, scholars, and employees at the University of Central Florida, as well as assistance in adjusting to a new academic environment and culture. Furthermore, ISC has and will devote its efforts, plans and processes to ensure legal compliance with federal regulations, so international populations can maintain their status. Services provided by ISC include issuing necessary documents to facilitate visa issuance abroad for international student applicants, transfer procedures, employment authorization for students and scholars, H1B visa holders' immigration advice by professional lawyers, and international taxation assistance. The ISC is committed to providing accurate, updated and timely information on issues and needs pertinent to international students, scholars, and employees. Another important role of the Center is to enhance international awareness and cross cultural understanding through educational, cultural and social programs and activities.

UCF Public Safety and Police

Interim Chief: Michael Zelanese; Building #49; 407-823-5555

The UCF Police Department is a full-service law enforcement agency which prides itself on providing professional services to the university community through prevention, education and enforcement. The University Police officers provide police services twenty-four hours a day, seven days a week to the university community.

The Communications Center provides a mechanism for persons to receive assistance in the event of an immediate threat, danger, injury, fire,

or criminal occurrence by calling 9-1-1. University Police are part of the county-wide "Enhanced 9-1-1" system and automatically receive calls related to campus. The system ensures that the correct emergency responder - police, medical or fire - is directed to the right place in the shortest amount of time. Since telephone numbers appear on the police computer screen, callers who are either too young or too incapacitated to give their number or location can still receive emergency assistance. Communications Operators are on line 24 hours a day. Blue light emergency phones are located at various locations on campus to allow persons in need to assistance to contact the Police Department. All Blue Light Emergency phones dial into the Communications Center to ensure a swift response if needed.

The Patrol Division (407-823-5555) provides proactive police services to the campus community by means of foot patrols, and marked vehicle patrols. The Patrol Division additionally contains specialized patrol units such as K-9, and marked motorcycle units to meet the unique needs of an expanding urban university.

The Investigations Division (407-823-5980) consists of five detectives who conduct latent investigations for all criminal cases.

The Community Relations Division (407-823-2165) offers crime prevention seminars regarding the protection of personal property, personal safety, and identity theft. The Community Relations Division manages the Safe Escort Patrol Service (SEPS) 407-823-2424, providing a safe escort for all individuals on campus.

The Victim Services Unit, located at University Towers, Ste. 450, 12201 Research Parkway, (the main office number: 407-823-2425; provides services for: 1) advocacy and practical assistance; 2) information and referrals; and 3) educational programming.

The University Police Department publishes an annual brochure entitled "Knight's Safety Guide". The Knight's Safety Guide presents an overview of all police services and offers crime prevention safety tips and campus crime statistics in compliance with the Federal Crime Awareness and Security Act of 1990. A copy of the Knights Safety Guide is available at the Undergraduate Admissions Office, Human Resources Office, and the University Police Department. A copy is mailed each year to students and staff. For further information visit the University Police website at <http://www.police.ucf.edu>.

Information Technologies and Resources

Vice Provost: Joel L. Hartman; MH 350; 407-823-6778

<http://www.itr.ucf.edu>

The Division of Information Technologies and Resources has University-wide responsibility for planning, implementation, and support of information technology resources. Units within the Division include the Library, Computer Services, Teledata Services, Instructional Resources, Course Development and Web Services, the Research Initiative for Teaching Effectiveness, the Center for Distributed Learning, and The UCF Channel. The services and resources of each unit are described in the following sections.

University Libraries

Director of University Libraries: Barry B. Baker; LIB 512;

407-823-2564

<http://library.ucf.edu>

Associate Director for Administrative Services: Frank R. Allen;

LIB 512; 407-823-2564

Associate Director for Public Services: Margaret K. Scharf;

LIB 512; 407-823-2564

Associate Director for Collections and Technical Services: Jeannette

A. Ward; LIB 502; 407-823-2575

Assistant Director for Systems and Technology: Selma K. Jaskowski;

LIB 512; 407-823-5444

Librarians: Barbara J. Alderman, Michael A. Arthur, Buenaventura B. Basco, Penny M. Beile, Timothy J. Bottorff, Mary Dee Bozeman, Lyn S. Case, Linda K. Colding, Eda M. Correa, Douglas D. Dunlap, Deborah M. Ebster, John R. "Rich" Gause, Jr., Donna R. Goda, Richard H. Harrison, Carole S. Hinshaw, Athena R. Hoepfner, Elizabeth K. Killingsworth, Marcus D. Kilman, Allison O. King, Cynthia M. Kisby, Elizabeth V. Konzak, Cheryl A. Mahan, M. Jason Martin, Hal D. Mendelsohn, Kimberly K. Montgomery, Renee C. Montgomery, Jeanne M. Piascik, Meredith C. Semones, Kristine J. Shrauger, Marilyn R. Snow, Peter Spyers-Duran II, Catherine L. Steffens, Carla M. Summers, Terrie K. Sypolt, Andrew D. Todd, Rachel G. Viggiano, Jack L. Webb, Ying Zhang.

University Libraries offers a variety of information resources and services. An extensive print resource collection includes 1.6 million volumes, 16,400 journal subscriptions, 2.9 million microforms and 43,000 media

titles. The libraries' rapidly growing electronic journals include 371 databases, 49,000 e-books, and 9,800 electronic journals. The library is a partial depository for United States and Florida government publications.

The main library is open 105 hours per week. Operating hours are available on the Web site: <http://library.ucf.edu> or by calling (407) 823-2756. Over 200 computer workstations are available for public use on all five floors of the main campus library, including 40 laptops equipped with wireless cards that can be checked out for use anywhere in the library building. Wireless technology enables patrons who have laptops with wireless cards to connect to the Library's electronic resources and to the Internet from anywhere in the main library building. The Library also has two classrooms outfitted with 41 computer workstations for hands-on instruction in the use of electronic resources.

The Library's web-based catalog can be accessed from any public or home PC, and also offers a gateway to hundreds of electronic databases, catalogs of other state university libraries and the community college system libraries. For help and advice in the use of the Library and its materials, the Reference Desk is open during most library hours. Librarians are on duty for assistance with selection and use of online and traditional resources, and individual appointments can be made for in-depth research consultation. The web site <http://library.ucf.edu/ask/> connects students with Ask a Librarian, where questions are submitted and answered in a real time chat session, by email, or by telephone at (407) 823-2562, or toll-free at (866) 271-7589.

The Interlibrary Loan and Document Delivery Services Department (ILL/DDS) assists students in obtaining materials not owned by the UCF Libraries, but are owned by other libraries worldwide. Most book loans and photocopied materials can be acquired free of charge within two weeks. Request forms are available at <http://library.ucf.edu/ill>. For more information, call (407) 823-2383 during office hours, or visit the ILL Web site.

Services are provided for persons with disabilities. By using the Library catalog students can determine the availability of needed books and telephone the Library to request that books and other print materials be retrieved from the shelves and held for them at the circulation desk. A workstation equipped with Jaws and Zoomtext software is available, as well as a Kurzweil reading machine. In collaboration with the University's Office of Student Disability Services and the Florida Bureau of Blind Services, the library staff will assist students in the use of equipment and software needed to use library resources. For more information go to <http://library.ucf.edu/Services/DisabilityServices.asp>.

Primary source material from Special Collections and the University Archives <http://library.ucf.edu/SpecialCollections/> supports the research, teaching, and service of the UCF community. These special materials, which cannot be easily replaced, include but are not limited to books, manuscripts, historic public records, ephemera, photographs, and art. The Libraries' digitization projects <http://library.ucf.edu/Systems/DigitalCollections/> continue to make more of these exciting and unique materials available on the World Wide Web. The Library partners with other university libraries and local institutions in Central Florida Memory, Florida Heritage, and similar projects to provide digital access to special and historic images and documents.

The Curriculum Materials Center (CMC), a unit of University Libraries, is located in the Education Building. The CMC provides representative K-12 curriculum materials for preview, review, analysis and circulation. The facility serves primarily the students and faculty of the College of Education (COE), however is open to all campus faculty, staff, and students. For more information see the CMC web page at <http://library.ucf.edu/cmc> or call 823-2791.

The Universal Orlando Foundation Library is located at the Rosen College of Hospitality Management in the heart of the tourist corridor on Universal Boulevard. Though the facility primarily serves the students, faculty, and staff of the Rosen School, the library is open to the entire UCF community as well as to hospitality industry professionals. The Library is fully staffed and users have access to most of the services and resources provided by the main campus library. For additional information go to <http://library.ucf.edu/Rosen> or call: (407) 903-8100.

Regional Libraries collections and services are available at the Brevard Community College/UCF Joint-Use Libraries in Cocoa and Palm Bay, the Daytona Beach Community College Joint-Use Library in Daytona Beach, the UCF Southlake (Clermont) Joint-Use Library, UCF Sanford/Lake Mary and UCF MetroWest. The university partners with local community colleges to provide complete information services, including materials processing and checkout at these regional sites.

All locations provide electronic access to library and University resources on the Web. Courier and intercampus loan services make the main

library's collections available to UCF students at all regional and branch campus sites. For more information see the web site at <http://library.ucf.edu/locations.asp>.

Office of Instructional Resources

Director: Ruth Marshall; Classroom Building 1, Room 203; 407-823-2571; Fax 407-823-2109

<http://www.oir.ucf.edu>

The Office of Instructional Resources (OIR) supports UCF administrators, faculty, and staff with multimedia design and production, digital media, web casting, video streaming, video over IP, interactive video course delivery, video production, audio production, digital photography, graphics, ETD software training and support for graduate students, and a full range of multimedia classroom support services. OIR manages UCF's interactive video network, which includes eight origination rooms on the Orlando campus and sixteen receive rooms at regional campus locations. OIR's facilities include the Digital Image Processing Lab (DIPL), located in the Research Pavilion (Suite 169) in the Central Florida Research Park. In association with its community partners, DIPL offers UCF faculty access to state-of-the-art digital imaging technologies including digital-image processing, digital document scanning, and CD-ROM production. OIR's Faculty Multimedia Center (CL1 202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR's Interactive Video Classroom (CL1 320) is used for videoconferencing and ITV course origination. The room also provides faculty with an excellent location for training in ITV production and delivery skills. OIR also supports more than 340 advanced multimedia classrooms and eight interactive video origination classrooms located throughout the campus and our Regional Campus locations. Approximately 93% of all classrooms at UCF are multimedia equipped.

OIR provides UCF with a full array of distributed-learning delivery systems, including an interactive video network that serves eight rooms on the Orlando campus and UCF Downtown; UCF Daytona, UCF Cocoa, UCF Palm Bay, UCF MetroWest (Valencia), UCF South Lake (Clermont), UCF South Orlando, UCF Lake Mary (Seminole Community College), UCF Ocala (Central Florida Community College) and other regional locations. OIR provides cable television delivery on the Orlando campus, and IP-based videoconference equipment and services.

Course Development and Web Services

Director: Barbara Truman; LIB 107; 407-823-3718

<http://cdws.ucf.edu>

Course Development and Web Services (CDWS) is responsible for supporting UCF's institutionally-sponsored online programs such as online learning (<http://online.ucf.edu>), the main Web site (<http://www.ucf.edu>), myUCF portal (<http://my.ucf.edu>), and enterprise applications such as AskUCF (<http://ask.ucf.edu>), and eCommunity (<http://ecomunity.ucf.edu>). CDWS also conducts faculty development for initiatives identified as priorities for support through an institutional planning process. Examples of faculty development include IDL6543 (<http://reach.ucf.edu/~idl6543>), ADL5000 (<http://reach.ucf.edu/~adl5000>), and Essentials (<http://reach.ucf.edu/~essentials>). CDWS offers support for students taking online courses through the Learning Online Web site (<http://learn.ucf.edu>), and offers support for faculty through the Teaching Online Web site.

CDWS sponsors events, professional development opportunities, and research and development activities through the Partnership for the Advancement of Distributed Learning located in the Partnership II building in UCF's Research Park. CDWS recruits talented students regularly to work on a variety of multimedia projects that support UCF's mission.

Intercollegiate Athletics

Director: Keith Tribble; WD2; 407-823-2261

<http://www.athletics.ucf.edu>

Programs in Intercollegiate Athletics are coordinated by coaches and staff of the UCF Athletics Association, Inc. under the general supervision of the Director of Athletics, who reports to the president. The University of Central Florida is a member of the National Collegiate Athletic Association (NCAA), Division I, competes in all sports (except women's rowing) in Conference USA. Intercollegiate athletics contests are governed by the rules of play published by NCAA and all established eligibility standards are observed. UCF's current intercollegiate sports for men include baseball, basketball, cross country, golf, football, soccer, tennis. Women's sports include basketball, cross-country, golf, rowing, soccer, softball, outdoor and indoor track and field, tennis, and volleyball.

University of Central Florida

Graduation Rate Disclosure

The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking undergraduate students who are enrolling for the first time at the institution, and who have not previously enrolled at any other institution of higher education, either complete or graduate from their programs. The freshman retention rate for Fall 2005 students is 82 percent. The information is public and available for review in the UCF Library.

UCF Arena

The UCF Arena is an indoor, multipurpose facility that opened in August of 1991. The Arena is host to a variety of campus events, including volleyball games. Please visit our website at <http://www.ucfarena.com>. For event or rental information, call 407-823-3070.

Convocation Center

The Convocation Center is an indoor, multipurpose facility that opens in Fall 2007. The Convocation Center is host to a variety of campus events, including all commencement ceremonies, men's and women's basketball games, concerts, and lectures. Please visit our website at <http://www.ucfarena.com>. For event or rental information, call 407-823-3070.

University Bookstore

The UCF Bookstore, a Barnes and Noble College division bookstore, located in the John T. Washington Center, is the text book and course material destination. It offers a complete line of UCF clothing, logo gift items, convenience and snack items, as well as a full service Starbucks cafe. Operating hours when classes are in session are Monday through Thursday 8:00 a.m. to 7:00 p.m., Friday 8:00 a.m. to 5:00 p.m., and Saturday 10:00 a.m. to 2:00 p.m. For more information call 407-823-2665 or visit the website at <http://ucf.bkstore.com>.

Transit Services

Through the efforts of the Department of Parking and Transportation Services, UCF constituency has varied transportation options to, from, and around the campus. The UCF Shuttle provides transit needs for students residing in fifteen (15) off-campus apartment communities, as well as numerous locations in Central Florida Research Park. Normal operating hours range from 6:30 A.M. to 10:30 P.M.

UCF also has an intra-campus shuttle service on the Black and Gold Line. Two routes serve up to 13 stops on campus. They operate continuously from 7:00 a.m. until 7:00 p.m. during the fall and spring semesters, and from 7:00 A.M. to 4:00 P.M. during the summer terms.

These services are free to all UCF students, faculty, and staff members, and operate on all class days, including exam weeks. Please refer to the webpage at <http://parking.ucf.edu/shuttle.html> or call 407-823-2131 for detailed information.

In addition, three LYNX bus routes, Links 13, 30, and 47, serve the UCF campus from Oviedo, Downtown Orlando, and Valencia Community College, East campus. Commuters may connect to most anywhere in the Greater Orlando area. The LYNX buses normally operate at 30 to 60 minute intervals at a per-trip cost of \$1.50. Special passes are available at discounted rates. Route maps may be obtained at the UCF Visitors Information Center and the Information Kiosk at the Student Union. Further details may be obtained by calling LYNX at 407-841-8240, or from their website, <http://golyx.com>.

The Orlando Shakespeare Theater - in partnership with UCF

<http://www.shakespearefest.org>

The Orlando Shakespeare Theater is Central Florida's classical theater, presenting professional artists in a variety of world-class plays. An AEA union company, the theater presents a six play signature series of Shakespeare and other plays; a three play theater for young audiences series; The Harriett Lake Festival of New Plays; and innovative educational programming that includes "The Young Company", "Shakespeare Alive", and "Shakespeare Experience". Performances are presented at three theaters in the Lowndes Shakespeare Center in Loch Haven Park and in the amphitheater at Orlando's Lake Eola Park.

In its nineteenth season, the theater has achieved a position of national recognition, attracting artists from across the country. The theater has been featured in such national publications as The New York Times, Southern Living, Theater Week, Backstage and Southern Theater. The third year of UCF's Acting MFA in Theatre is spent in residence at the theater. Internships and independent studies for UCF students and alumni are available with the theater in many departments. For more information, contact Artistic Director, Jim Helsinger, 812 E. Rollins St., Suite 100, Orlando FL 32803, 407/447-1700.

UCF Alumni Association

Executive Director: Tom Messina; *FAIRWINDS* Alumni Center; 407-UCF-ALUM (823-2586) or 800-330-ALUM (330-2586)
<http://www.ucfalumni.com>

Staying in touch with your inner Knight is really about keeping connected with UCF: your school, your people, your traditions. The University of Central Florida Alumni Association develops and maintains alumni awareness and supplies the resources for members to stay connected. While UCF alumni comprise the core member group, membership in the UCF Alumni Association is offered during all phases of UCF life. Students can join the 4EVER KNIGHTS (4EK) Student Alumni Association and parents of UCF students can stay connected through parent memberships with the alumni association.

Membership in 4EK provides many benefits, including:

- FREE STUFF - membership key card, T-shirt, 1-year subscription to Pegasus magazine, Student Connection e-newsletter and discounts including 15% off all UCF logo merchandise at the UCF Bookstore
- FUN - Family Weekend, BBQ's, Homecoming, Oozeball, 4EK T-shirt days and more
- CONNECTIONS - Networking with UCF Students & alumni
- LEADERSHIP OPPORTUNITIES - Eligible to become a student ambassador
- SCHOLARSHIP OPPORTUNITIES - the alumni association awards more than \$40,000 in scholarships to eligible UCF students every year.

To join the UCF Alumni Association as an alum, student or parent member, or for more information, stop by the UCF Alumni Association at the *FAIRWINDS* Alumni Center; call 407-UCF-ALUM (823-2586); toll-free 800-330-ALUM (330-2586); or connect anytime at <http://www.ucfalumni.com>.

UCF Foundation, Incorporated

The UCF Foundation, Incorporated is a non-profit, tax-exempt corporation directed by a 44 member community-based Board of Directors that encourages, solicits, receives, and administers private gifts and bequests of property and funds for scientific, educational, and charitable purposes. All gifts to UCF are received and processed through the UCF Foundation for support of the University. Call 407-882-1220 for additional information.

DIVISION OF MARKETING, COMMUNICATIONS, AND ADMISSIONS

Office of the Vice President for Marketing, Communications, and Admissions

Vice President for Marketing, Communications and Admissions:
Thomas Huddleston, Jr., Orlando Tech Center, 12443 Research Parkway, Suite 301, Orlando 32826; 407-823-2232;
<http://www.mca.ucf.edu>

Purpose Statement

Create, coordinate and deliver strategic communications and quality enrollment that add value to the university.

Overview

The division of the Vice President for Marketing, Communications, and Admissions coordinates and directs the functions of the university most directly responsible for establishing, originating and disseminating positive, targeted communications developed to enhance and forward the university's prominence, achievements, identity and value to its diverse constituencies. This value is defined not only in geographic terms, encompassing international, national, state and local audiences, but in terms of defined audiences ranging from prospective students, staff, faculty and corporate partnerships to the communities the university serves and its stakeholders.

The division unifies the activities of University Marketing, News and Information, Television Services, and Undergraduate Admissions. In this collective, the shared goal of enriching the momentum and impact of UCF's marketing communications is grounded in the belief that successful communications programs are the result of collaborations and relationship-building efforts. The vision of the division is to integrate and publicize the entrepreneurial achievements of the sources and providers of the UCF experience, campuswide—in academics, research, civic and corporate outreach, service and community involvement—and by doing so to enhance UCF's reputation as a major research institution and to better tell our success story to our key constituents and prospective students.

This mission, the enrichment of the university's image and brand identity in terms of audience-specific recognition, encompasses the reach, frequency and continuity of the message. The division is responsible for developing and implementing strategy, programs to communicate UCF's advantages in academics, campus life, research, corporate partnerships and individual college capabilities; positioning platforms, copy platforms and design, and production of publications and multimedia tools to achieve its mission.

The division is committed to achieving the highest possible competitive advantage for the university. This will be measured not simply in terms of quantity or even quality of the communications the division produces, but on the increasing awareness of and positive associations with the university's diverse constituencies.

Television Services

Orlando Tech Center, 12443 Research Parkway, Suite 301, Orlando 32826;
<http://www.ucfchannel.ucf.edu>

Television Services strengthens the UCF brand by developing and distributing enrichment programs that help differentiate UCF as a leading metropolitan research university. The programming highlights the university's academic achievements, economic development, cultural contributions and community relationships.

Television Services serves as a strategic integrated communication vehi-

cle through its video production, television program development, and distribution services units. Video production and distribution capabilities include studio and on-location video production, editing, plus fiber and satellite uplink services. Through strategic community partnerships with WBCC-TV and the UCF Digital TV Channel 68.2, local county government cable channels, and WMFE-TV, viewers in the Central Florida region are able to watch Television Services programs via antenna, cable and satellite TV. Internet distribution expands our reach across the globe.

Undergraduate Admissions

Assistant Vice President: Gordon D. Chavis, Jr., J.D.;
Progress Energy University Welcome Center; 407-823-3000;
E-mail: admission@mail.ucf.edu
<http://www.admissions.sdes.ucf.edu>

The Office of Undergraduate Admissions coordinates the admission and enrollment of all undergraduate first-time-in-college, transfer, non-degree, and non-Florida state university transient students to the Orlando, Cocoa, South Lake, and Daytona campuses. The office's primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to and achieve growth and success at the University of Central Florida.

The office administers several programs for prospective students and parents, including daily tours and information sessions, open house events, area receptions, and high school and community college visits by the admissions staff. We also provide students with the opportunity to meet one-on-one with an admission representative on campus. Please contact the office at 407-823-3000 or visit our website for further information. Office hours are: Monday/Thursday 9:00 a.m. to 7:00 p.m., Tuesday/Wednesday/Friday 9:00 a.m. to 5:00 p.m.

Student Financial Assistance

Executive Director: Mary H. McKinney; MH 120; 407-823-2827
<http://finaid.ucf.edu>

The Office of Student Financial Assistance manages resources for all students. Once financial aid eligibility is determined, the office provides options to help students meet their educational goals. Comprehensive counseling is available by appointment. Due to confidentiality, counseling by phone and email is limited.

Student Outreach Programs

Interim Director: Ana Marrero-Lopez; Orlando Tech Center, 12443 Research Parkway, Suite 600, Orlando 32826; 407-823-5580
<http://www.reachout.sdes.ucf.edu>

The primary mission of Student Outreach Programs is to attract, motivate, and prepare select underrepresented student groups to complete a college education. These students are provided with essential information, educational materials and collegial experiences to enhance their preparation for post-secondary study.

A myriad of pre-collegiate programs are administered by Student Outreach. The College Reachout Program (CROP) is supported by the Florida Department of Education and provides campus and school-based programs to strengthen the success skills of students in grades 6-12. The UCF McKnight Center of Excellence offers direct access to community-based programs for students at every grade level. Community partnerships help to identify potential students, offer volunteer support and make significant contributions to support program goals and objectives.

Throughout the year, workshops, seminars and other activities and events are sponsored to support the student's personal development and academic achievement. Students are invited to the UCF campus throughout the year, and may also participate in summer programs that provide an early introduction to college life and which equip students with unique approaches to attain college preparedness.





Division of Student Development and Enrollment Services

Vice President for Student Development and Enrollment Services:
Maribeth Ehasz; MH 282; 407-823-4372
<http://www.sdes.ucf.edu>

Introduction

The Division of Student Development and Enrollment Services (SDES) is responsible for the administration and management of programs, services, facilities and activities designed to support student learning both inside and outside the classroom.

The SDES Vision is: "Building collaborative partnerships that empower students to succeed!"

Student Development and Enrollment Services, in collaboration with university and community partners, empowers students to succeed by providing opportunities and support to develop integrity, scholarship, community, creativity and excellence. These values of "The UCF Creed" guide our conduct, performance and decisions.

Goals of the division are to: Promote progression to graduation, graduate school and productive employment; Create opportunities for students to strengthen life skills and develop purpose, integrity, ethical standards and civic responsibility; and Embrace diversity and foster engagement in the global community.

The division is comprised of five main areas: Academic Development and Retention, Administrative Services, Assessment and Planning, Campus Life, and Regional Campus Student Services. Together, we strive to measure our success by student persistence, quality service and exceptional learning.

Academic Development and Retention

Associate Vice President: Mark Allen Poisel; MH 282;
(407) 823-4625
<http://www.adr.sdes.ucf.edu>

The Unit of Academic Development and Retention facilitates successful

student transitions and experiences by providing the foundation and support for their academic, personal and career success.

Academic Services for Student-Athletes (ASSA)

Director: Mark Gumble; WDSC 104, SABRE Centre; 407-823-5895
<http://www.assa.sdes.ucf.edu>

The Office of Academic Services for Student-Athletes works in collaboration with the Athletics Department to assist student-athletes in their efforts to establish and achieve their personal, academic, NCAA Division I academic-athletic eligibility, and career planning goals. ASSA services include:

- Providing transition services that promote the academic success of student-athletes;
- Guiding student-athletes in their selection of meaningful and appropriate major and minor fields of study;
- Assisting student-athletes with course registration, understanding of policies and procedures, and tracking progress towards degree completion;
- Organizing study halls, academic mentoring, and tutorial services;
- Leading student-athletes in their personal development through participation in the NCAA CHAMPS Life-Skills Program;
- Directing students to utilize the full spectrum of other University services;
- Preparing student-athletes in their career planning and development;
- Assisting learning-disabled student-athletes with assessments and accommodations; and
- Providing student-athletes with computer access and services.

National Consortium for Academics and Sports (NCAS)

Director: Suzi Katz; WD1 103A; 407-823-5243
<http://www.ncasse.org>

The mission of the Southeast Regional Office of the National Consortium for Academics and Sports (NCAS) at the University of Central Florida is to help create a better society by focusing on educational attainment and using the power and appeal of sport to positively affect social change. The NCAS reaches this goal in the Central Florida community and in southeast region by making programs avail-

able in the areas of diversity training, gender violence prevention and alcohol education. The NCAS also cultivates partnerships between the University, local schools, community organizations, and other non-profit agencies that also are committed to serving the community. For additional information, visit the National Consortium for Academics and Sports website at <http://www.ncasse.org>.

Student Success Center

Assistant Vice President: DeLaine Priest; PH 216; 407-823-2137
<http://ssc.sdes.ucf.edu>

The Student Success Center provides seamless articulation, programs and services that support, motivate, and encourage first year students to more effectively transition into their new UCF environment while minimizing threats to their success. This unit, comprised of the offices of First Year Advising and Exploration, Multicultural Academic & Support Services, Sophomore and Second Year Center, Student Academic Resource Center, and the University Testing Center, offers academic advising, learning support services, testing administration, and outreach programming. For more information, visit the Student Success Center's website at <http://ssc.sdes.ucf.edu>.

Academic Exploration Program (AEP)

407-823-3789; PH 116
<http://aep.sdes.ucf.edu>

The Academic Exploration Program has been developed to provide structured experiences to assist students who have not declared a major. Students are provided major exploration and career development connections as primary advising initiatives so they can assess, explore, plan, and decide on their future major at UCF. AEP has several components including coordinated academic advising services from a first year advising office, major and career exploration programming activities, and online assessments. The program is also available to first year students who are unsure about their major choice and to those changing their majors. For more information, visit the AEP website at <http://aep.sdes.ucf.edu>.

First Year Advising and Exploration (FYAE)

Director: Gloria Laureano; PH 116; 407-823-3789
<http://firstyear.sdes.ucf.edu>

UCF recognizes that starting in a new learning environment can present many challenging life transitions for incoming freshmen students. First Year Advising and Exploration has been established to prepare and advise first-time-in-college students (not assigned to other first year advising offices). The overriding mission of the office is to assist first-year students by providing numerous academic advising support services and other programs that will lead to their overall satisfaction, success and retention at UCF. Students who have not selected a major (Undeclared students) are provided focused advising support services through the Academic Exploration Program to assist them in the major selection process.

To fulfill this mission, each student is assigned a specific academic advisor who connects with the student through various activities such as orientation, individual appointments, outreach programs, email and phone communication, and small group advising sessions. The office focuses its efforts on providing proactive academic advising support, establishing early and regular communication, and providing outreach advising activities for first year students residing in both on-and off-campus facilities. FYAE also offers academic advising at satellite offices located in the Pegasus Landing and Pegasus Pointe affiliated housing areas. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised through First Year Advising and Exploration. For further information, visit Howard Phillips Hall, room 116, or the FYAE website at <http://firstyear.sdes.ucf.edu>.

Multicultural Academic and Support Services (MASS)

Director: Wayne Jackson; PH 102; 407-823-2716
<http://www.mass.sdes.ucf.edu>

The Office of Multicultural Academic and Support Services provides comprehensive academic support, cultural enrichment, consultation, and referral services that promote the recruitment, admission, retention, and graduation of multicultural and First Generation College Students. MASS offers personalized advising and support; monitors academic progress; sponsors a six week summer program, Seizing Opportunities for Achievement and Retention (SOAR); and designs and coordinates cultural and social activities to assist students in realizing their academic, career and personal goals. MASS serves as the focal point of operations in addressing the specific needs, issues and

concerns that confront multicultural and First Generation College Students at UCF.

Sophomore and Second Year Center

Director: Robert Snow, PH 221, 407-823-3375
<http://www.sophomore.sdes.ucf.edu>

The Sophomore and Second Year Center has been developed to guide students toward declaration of a major, retention to the next year, and eventual graduation from the University of Central Florida. The center has primary responsibility for connecting sophomores and second year students to campus resources, academic advising, career development, academic support services, and transition assistance to the appropriate college advising office or department.

The center also provides advising support to undeclared (no major) students after their first year at UCF; accelerated FTIC's (first time in college students entering UCF with 45 or more college credits earned from AP, IB, CLEP, and/or dual enrollment courses); and sophomores and second year freshmen who are changing their majors or need assistance in transitioning to the appropriate college advising support office. For additional information on the Sophomore and Second Year Center, please visit the center in Howard Phillips Hall room 221, or call at 407-823-3375.

Student Academic Resource Center (SARC)

Director: TBA; PH 113; 407-823-5130
<http://www.sarc.sdes.ucf.edu>

The Student Academic Resource Center provides high-quality programs and services that enable UCF students to achieve their academic goals. Programs include: Supplemental Instruction, tutoring, academic advising, and academic success workshops.

The Supplemental Instruction (SI) program focuses on providing assistance to students in historically difficult courses such as anatomy, biology, chemistry, microbiology, molecular biology, and physics. These peer-led study sessions give students in these courses an opportunity to meet outside of class to compare notes, discuss important concepts, and develop strategies on how to learn the subject matter.

Free peer tutoring is also available for many UCF subject areas, such as accounting, physics, statistics, chemistry, economics, and biology, to name a few. In total, SARC provides individual and group tutoring for more than 25 courses.

Each semester, SARC also offers a series of academic success workshops designed to address common student issues. Among these are test-taking strategies, time management, reading effectiveness, and memory improvement. Additionally, preparatory workshops are offered for the math portions of the College Level Academic Skills Test (CLAST) and General Knowledge exam. Computer-assisted learning programs are also available for the GRE, GMAT, and CLAST exams.

SARC's professional academic advisors provide support for students in the Pegasus Success Program, the College Achievement Program (CAP) and the Supporting Teacher Education Pre-professionals (STEP) Program.

A learning skills counselor is also available for students who need study skills advice or those who wish to enhance their educational experience. For additional information, visit the Student Academic Resource Center website at <http://sarc.sdes.ucf.edu>.

University Testing Center (UTC)

Assistant Director: Rebecca Piety; PH 106; 407-823-5109
<http://www.testing.sdes.ucf.edu>

The University Testing Center administers the state College Level Academic Skills Test (CLAST) and the Computer-Adapted CLAST (CAT-CLAST); placement examinations such as the College Placement Test (CPT); Foreign Language Proficiency Exam (FLPE); Florida Teachers Certification Examination (FTCE); Grammar Proficiency Exam (GPE); and Institutional Academic College Test (ACT). UTC also administers the following national and standardized exams:

- College Level Examination Program (CLEP)
- Law School Admissions Test (LSAT)
- Test of English as a Foreign Language, Internet-based Test (TOEFL iBT)

For additional information, visit the following website:
<http://www.testing.sdes.ucf.edu>.

Division of Student Development And Enrollment Services

Transfer and Transition Services

Director: Charlene A. Stinard; PH 221; 407-823-2231
<http://transfer.sdes.ucf.edu>

The Office of Transfer and Transition Services has been organized to help transfer students make a seamless transition so that they have a more successful experience at the University of Central Florida. The office provides the following resources and services:

- General advising and referral for transfer students before and after they enroll at UCF;
- Advising for transfer students who are undeclared majors, undecided, or changing majors;
- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- Transition advising services for currently enrolled juniors and seniors who are undeclared or changing majors;
- Peer Mentors provide transfer advising services;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities;
- Articulation workshops and conferences involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions;

For more information, visit the Transfer and Transition Services website at <http://transfer.sdes.ucf.edu>.

Orientation Services

Director: Joe Ritchie; PH 218; 407-823-5105
<http://www.orientation.sdes.ucf.edu>

The orientation program (combining pre-enrollment orientation with extended first year transition programs for academic credit) assists entering freshmen and transfer students with their transition to the University of Central Florida by providing information about student services, campus life, academic support, academic advising, and registration. Every freshman and transfer student is required to attend an orientation session prior to registering for classes. Students register for the program and get further information by visiting the Orientation Services website at <http://www.orientation.sdes.ucf.edu>.

Career Services & Experiential Learning (CSEL)

Executive Director: Melanie Parker; FC 185; 407-823-2361 (Career Services), 407-823-2667 (Experiential Learning)
<http://www.csel.ucf.edu>

Career Services & Experiential Learning (CSEL) offers a comprehensive range of services to help UCF students of any major reach their academic and career goals with a talented staff of career and experiential learning specialists. These comprehensive services are designed to help First Year through Graduate students with all phases of career development and applied learning experiences to include:

- Major and Career Choices
- Academic and Career Information
- Experiential Learning Opportunities (Co-op, Internships, Service Learning)
- Resumes and Cover Letters
- Interviewing Skills
- Job Search Strategies
- Employment Assistance (Career Fairs, On-Campus Recruiting, Job Postings and Resume Referrals)
- Graduate School Information

These programs and services are available through walk-in assistance, scheduled appointments, workshops, and major events.

Counseling Center

Director: David L. Wallace; COUN; 407-823-2811
<http://www.counseling.sdes.ucf.edu>

The Counseling Center serves UCF enrolled students who seek assistance with developmental and mental-health related concerns and the broader campus community by offering a wide variety of programs in direct support of the university mission. The Center is composed of a professional staff of licensed (or license-eligible) psychologists, mental health counselors and social workers who provide a confidential atmosphere and a safe environment in which students may explore and resolve issues of concern. The Center also provides advanced training and supervision for graduate students in counseling. The Center is open Monday through Friday. Services offered by the Center

include:

- Short-Term Individual Counseling
- Group Counseling and Workshops
- Crisis Intervention
- Couples Counseling
- Professional Consultation
- Outreach and Presentations
- Referral

For additional information, visit the Counseling Center website at <http://www.counseling.sdes.ucf.edu>.

Registrar's Office

University Registrar: Dennis J. Dulniak; MH 161; 407-823-3100;
 Registration HelpLine: 407-823-3533; E-mail: registrar@mail.ucf.edu
<http://www.registrar.ucf.edu>

The Registrar's Office, with a commitment to quality service and leading edge technology, provides timely and accurate enrollment information and access for students, colleges and departments, effectively meets student administrative needs, ensures complete records management from registration through graduation and archived data stores. The office maintains the integrity of student permanent academic records and coordinates and enforces University policies and procedures campus-wide through cooperation, communication, and leadership. In addition, the Registrar's Office is responsible for management and publication of course offerings, the *Undergraduate Catalog*, online *Web Enrollment Guide*, the efficient utilization of classroom resources, residency reclassifications, student veteran services, and Commencements.

Veteran Services

Assistant University Registrar: H. Lee Parker; MH 161;
 407-823-2707
<http://www.va.ucf.edu>

Veteran Services serves all veteran students and eligible dependents who are using VA educational benefits to further their education. The office provides information concerning entitlements, filing claims to the Department of Veterans Affairs (DVA), certifying enrollment at the University, and deferring tuition and fee payments. The office also provides related counseling for personal and academic concerns and referral to various community agencies. Veterans and eligible dependents must be certified through Veteran Services each term to receive VA educational benefits. The office monitors the academic progress of all those receiving VA educational benefits. All veterans and eligible dependents are urged to consult Veteran Services early in the UCF admissions process.

Students eligible for VA educational benefits must certify each term with Veteran Services after they enroll for classes. To maintain eligibility for VA education benefits, students must adhere to the policies and procedures VA educational benefits. A copy of the "Student Veteran Handbook" can be obtained on the GI Bill website.

UCF, being a member of SOC (Service Members Opportunity College) provides credit for military training and education. Credit is awarded for regionally accredited schools and courses only. Transfer credit is not awarded for experience, military skills level and/or special certifications. Transfer credit is awarded per the recommendations of the American Council on Education (ACE) Guide, based upon courses and/or training listed on the DD Form 214, SMARTS, ARTS, or other official military record. U.S. Air Force veterans must coordinate with the Community College of the Air Force to provide official CCAF transcripts to the Undergraduate Admissions Office.

Students eligible for VA educational benefits may also be eligible for a VA deferral of tuition and fees. The VA Deferment due date is contained in the "Academic Calendar." Students eligible for financial aid adequate to cover tuition and fees are not eligible for this deferment.

For Fall and Spring semesters, undergraduates must carry at least 12 credit hours for full-time VA benefits, 9-11 credit hours for three-quarter time benefits, and 6-8 credit hours for half-time benefits. Five credit hours or less will be reimbursed at the cost of tuition and fees or quarter-time depending on VA Chapter. Check Veterans Services website for Summer term course load and other FAQs.

Students currently enrolled at UCF and another institution may receive VA educational benefits, but first must complete the appropriate Transient Form and consult with Veterans Services. Veterans and eligible dependents who desire to change their major, or pursue a dual major, dual degree, or who add a minor may receive VA educational benefits but must obtain approval from DVA before taking any of the applicable courses. This includes a minor in military science. NOTE:

some majors may have extra elective hours that can be used for courses for a minor or another major.

To continue to be able to receive VA educational benefits, students must maintain satisfactory academic progress and conduct. Accordingly benefits will be terminated for individuals who are disqualified, excluded, suspended, or expelled from the University. If reinstated by the University following disqualification, exclusion, suspension, or expulsion, the veteran or eligible dependent must contact Veterans Services to have their VA educational benefits re-activated.

Individuals placed on academic probation will continue to receive benefits as long as he or she earns a 2.0 or higher GPA each term. For students who fail to maintain satisfactory academic progress, benefits will be terminated once the required credit hours of course work for the program of study are completed, regardless of the GPA or eligibility for graduation. Veterans and eligible dependents also may draw VA benefits during the periods of eligibility while on Cooperative Education assignments. Payment is received during both the on-campus and off-campus work terms. Contact Veterans Services for more specific benefit information on Cooperative Education.

Student Disability Services (SDS)

Director: Philip Kalfin; FC 132; 407-823-2371
<http://www.sds.sdes.ucf.edu>

The Office of Student Disability Services provides information and individualized accommodations consistent with the student's documented disability. Such accommodations may include, but are not limited to, assistance with classroom accommodations (including examination accommodations), assistance with course registration, and information and referral to campus and community services for students with disabilities.

To be eligible for disability-related accommodations, students must have a documented disability as defined by applicable federal and state laws. Accommodations are available to students whose disabilities include, but are not limited to, attention-deficit hyperactivity disorder, deaf and hard-of-hearing, physical disability and/or health-related impairment, psychological and/or psychiatric disability, specific learning disability (such as dyslexia), speech impairment, visual impairment, or other disabilities requiring administrative or academic accommodations. Students seeking accommodations are required to provide recent documentation from an appropriate health care provider or professional.

If a student needs special admission consideration based on a disability, the student should answer this question on the Application for Admission form and send the requested appropriate documentation to the Undergraduate Admissions Office.

After admission to the University, students who have a disability that may require disability accommodations must contact Student Disability Services for an intake interview to be eligible to receive disability accommodations. The student will be required to provide disability documentation during the intake interview at Student Disability Services. All information is confidential and will be used only to assist the student. A Text Telephone (TTY)/Telecommunication Device for the Deaf (TDD) is available for deaf/hard-of-hearing or speech-impaired persons with TTYs/TDDs to contact Student Disability Services (TTY/TDD calls only phone 407-823-2116).

Administrative Services

Associate Vice President: Sharon Ekern; MH 282; 407-823-3167
<http://www.admin.sdes.ucf.edu>

Budget and Personnel Support

Director: David L. Pavlonis; MH 282; 407-823-3167
<http://www.admin.sdes.ucf.edu>

Budget and Personnel Support's goal is to improve the quality of university operations and student success by providing SDES personnel with overall management and leadership in resource management, and technology support. This is accomplished through collaboration and coordination with SDES staff and other university academic and administrative units. Specifically this office provides support in areas of budget, personnel, purchasing, and technology support.

Activity and Service Fee Business Office

Director: Joseph Sciarino; SU 215; 407-823-5548
<http://www.asf.ucf.edu>

The Activity & Service Fee Business Office provides a variety of services to UCF students. The office processes purchase requests for most Activity & Service Fee Agencies and all Student Government

allocations. We provide financial training workshops to student organization officers and their faculty/staff advisors. The office also provides a variety of equipment for check out to any student FREE of charge.

In addition, our office manages the operation of the Student Government Computer Lab, which is located in SU 209. The Student Government Computer Lab has 42 computer stations available and is the only lab that provides FREE printing to currently enrolled students. Our office also manages the Student Government Ticket Center which sells a variety of discounted tickets to local amusement parks and movie theaters, and is also an authorized *TicketMaster* Retail Outlet.

Alcohol and Other Drug Prevention Programming

Director: Tom Hall; COUN; 407-823-0879
<http://www.aod.sdes.ucf.edu>

The Alcohol and Other Drug Prevention (AOD) Programming Office offers a wide variety of services, including education, prevention, alcohol and other drug assessment/evaluation, short term intervention, counseling, and referrals. The AOD Office partners with other campus and community programs to create a healthy environment for students to study, work and play. Programs, activities and support services are provided to students to encourage low risk, responsible choices; ones that will optimize their personal and academic success and enhance their time at UCF.

Additionally, this office serves as an umbrella for the Real Project Peer Advocacy Program.

We offer a three hour elective credit course, HLP 2701, "Sex, Drugs and 3 Credit hours!?" Information on contemporary college health issues such as alcohol and other drugs, sexual assault, HIV/AIDS, sexually transmitted infections and diversity are discussed. Students explore ways to assist their peers with life skills development when dealing with these issues. Students then have an opportunity to utilize these skills and knowledge to present valuable information and act as a resource to other peers on campus.

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, 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 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.

AOD Policy Information: 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, 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 reason for evaluation/treatment for drug/alcohol use disorder and/or referral for prosecution consistent with local, state and federal law.

The sale, service, possession and consumption of alcoholic beverages shall comply with state and federal laws, city and county ordinances, and the licensing agreement with on-campus distributors which allows for the sale and service of alcoholic beverages. In addition the University has formulated the following policies governing the sale, service, possession and consumption of alcoholic beverages on campus. For more information regarding Alcohol/Drug Policy, visit http://www.goldenrule.sdes.ucf.edu/14_Drug_Free.html.

Division of Student Development And Enrollment Services

Creative School for Children

Director: Marcia Diebler; CSC; 407-823-2726
<http://www.csc.sdes.ucf.edu>

The Creative School for Children is the Educational Research Center for Child Development and provides an early experience educational program for children ages 2-5 years old. The school is accredited by the National Association for the Education of Young Children (NAEYC). The daily program is planned and conducted by degreed teachers. The program provides a wide variety of experiences in art, music, language, motor skills, science, math, social studies, perceptual development, socialization, and self-discovery. Planned and spontaneous field trips and special family programs are part of the yearly schedule. Experiences in observation and training in academic areas also are made available to University students. Opportunities for educational research are available to university faculty, undergraduate and graduate students. The school enrolls children of university students, faculty, and staff. Operating hours are 7:45 a.m. to 5:15 p.m., Monday through Friday.

Assessment and Planning

Director: Ronald H. Atwell; MH 282; 407-823-2628
<http://www.assess.sdes.ucf.edu>

This office provides the Vice President and units of Student Development and Enrollment Services assistance in assessment, research and planning functions. The office also is responsible for the development of division-wide publications.

Campus Life

Associate Vice President: Craig E. Ullom; SU 304; 407-823-2626
<http://www.campuslife.sdes.ucf.edu>

The Campus Life unit develops partnerships to provide meaningful programs, quality services, and personal growth opportunities for students in learning environments. Campus Life promotes personal excellence, healthy lifestyles, leadership development, and community responsibility. Departments in Campus Life include: Partnership Development, Student Leadership Programs, LEAD Scholars Program, Fraternity and Sorority Life, Office of Student Involvement, Campus Faiths and Ministries, Student Union, Recreation and Wellness Center and Intramural Sports, Student Rights and Responsibilities, Student Conduct, Dispute Resolution Services, Student Legal Services, Student Health Services, Housing and Residence Life, LINK First Year Experience, Affiliated Housing, Rosen College of Hospitality Management Campus Life, Parent and Family Programs, and Off-Campus Student Services.

Campus Faiths and Ministries

Director: Brad Crawford; RS 102; 407-823-5337
<http://www.ucm.sdes.ucf.edu>

The Campus Faiths and Ministries program is a combined effort of a wide variety of religious faiths and denominations providing students with professional personnel who will encourage spiritual, moral, and social opportunities in a spiritual context within the University community. In addition to mission and service opportunities, Campus Faiths and Ministries offers counseling, scripture study, public lecture and discussion programs, fellowship, recreation, and worship services.

Fraternity and Sorority Life

Director: Belinda Boston; SU 154; 407-823-2072;
 (Greek Council Office, SU 154, 407-823-2072)
<http://www.greeklife.sdes.ucf.edu>

The Fraternity and Sorority Life office is committed to providing the best possible fraternity and sorority experience for both students and the University community. This office fosters and promotes the development of national fraternities and sororities by providing advice, services, and programs to ensure all members engage in high-quality undergraduate fraternal experiences that reinforce the organization's founding principles: scholarship, community service, campus involvement, and sisterhood/brotherhood. It encompasses small group living and more importantly, developmental programming for individuals, chapters, chapter alumni boards, house corporation officers, and collegiate governing boards (i.e., Panhellenic Council, Interfraternity Council (IFC), National Pan-Hellenic Council (NPHC), Diversified Greek Council (DGC), and the Greek Council).

Sorority or fraternity life can offer students a "home away from home," a source of job contacts, a scholastic support system, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently, 44 fraterni-

ties and sororities involve more than 3,400 students. Greek organizations give college men and women a chance to excel in any area they choose and include students of every race, religion, culture, and background.

Students are encouraged to take a closer look at UCF's Greek community through participation in fraternity or sorority recruitment. The Interfraternity Council and Panhellenic Council sponsor "Recruitment" or "Rush," which actually consists of visiting the various chapters to meet current members and to ask questions about their organizations. Diversified Greek Council (DGC) sponsors Meet the Greeks and the National Pan-Hellenic Council (NPHC) sponsors a Greek Expo, which allow students to become familiar with those groups comprising that governing body. Whether or not an individual chooses to join a fraternity or sorority, Recruitment, Greek Expo and Meet the Greeks are excellent ways to meet people and become acquainted with life at the University of Central Florida. Learn more about fraternities and sororities by visiting our website at: <http://www.greeklife.sdes.ucf.edu>.

Health Services

Director: J. Robert Wirag, HC 309, 407-823-2094
<http://hs.ucf.edu>

Recognizing the importance of lifestyle in health and the prevention of disease, UCF Health Services complements quality care for illnesses and accidents with a meaningful health education and lifestyle enhancement program. Additionally, Student Wellness Advocate Team (SWAT) enhances the health promotion efforts of the Reach for Wellness Program through the Recreation and Wellness facility.

Physicians, advanced registered nurse practitioners, physician assistants, registered nurses, pharmacists, and a full complement of other medical support personnel staff the Health Center. Medical conditions that require specialty care services are referred to specialists in the greater Orlando area or to specialists according to the patient's preference.

Each health fee paying student is entitled to the benefits provided through Health Services, which are outlined in printed material available from the Health Center or on its website at <http://hs.ucf.edu>. Most office consultations and programs are provided without charge. However, laboratory tests, x-rays, medications, and some supplies require additional but significantly reduced payments, which may be made with cash, credit card, personal check, or charged to the student's account.

Optional health and accident insurance may be purchased by response to periodic mailers or by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Services Business Office (407-823-1087). Please remember that optional health and accident insurance is not part of the Health Services program, provided by the health fee. However, the insurance, if purchased, will cover most of the supplemental Health Services charges and provides for health coverage needs that are beyond the scope of the campus Health Services program, such as hospital referrals and specialty care. Charges incurred outside the Health Center are the responsibility of the student.

When the Health Center is closed, students may obtain information and help from the Health Services' telephone message, its website (see above), 24/7 WebMed (the web-based interactive system to help make decisions about health needs - <http://hs.ucf.edu>), or if the situation is urgent, by calling 911 or the UCF Police Department.

Health Services staff offers confidential testing for HIV (AIDS virus). A program for anonymous testing is available elsewhere by calling the REACH HIV AIDS Education Office at UCF-AIDS (407-823-2437). Information concerning these programs may be obtained by calling the Health Center at 407-823-2701 during regular hours.

Housing and Residence Life

Director: Christi Hartzler; HAB 101; 407-823-4663
<http://www.housing.ucf.edu>

The Department of Housing and Residence Life offers regularly enrolled single students paying registration fees for a minimum of nine credit hours housing on the Orlando Main Campus and the Rosen College of Hospitality Management Campus. Orlando Main Campus housing is reserved for mostly incoming first-year students. A limited amount of space is available for upper-class students who are currently living in on-campus housing. Graduate student, transfer student, married, and family housing is not available on the Orlando Main Campus. Transfer students, Graduate Students, and first-year students are all welcome at the Rosen College of Hospitality

Management Student Apartments.

Students can apply to housing after being admitted to the University. There is not enough on-campus housing for all first-year students who apply. Therefore, those first-year students desiring to live on-campus should apply for admission to the University as soon as possible. Application periods include fall/spring academic year contracts with a separate application for summer or 11.5 month annual contract. Priority for room assignment for a new applicant is based on the date of receipt of the completed housing application.

Housing choices range from suite style residence halls to single bedrooms in apartments. Most first year students who apply for academic year contracts will receive assignments in double room suite style residence halls. Single bedrooms in apartments are available in the 11.5 month annual housing including the Towers at Golden Knights Plaza located on the Orlando Main Campus or the Rosen College of Hospitality Management Apartments.

More information on the different housing options, rates, floor plans, etc. is available online at <http://www.housing.ucf.edu>.

Applicants have the option of choosing one of several University meal plans. Specific information concerning University meal plans is available from UCF Dining Services online at <http://www.ucfdining.com>.

Intramural Sports

Associate Director: Jim Wilkening; Recreation and Wellness Center; 407-823-2408
<http://www.rec.ucf.edu>

The Intramural Sports program offers the opportunity to participate in more than fifty action-filled team, dual, and individual sports, including perennial favorites flag football, basketball, soccer, and floor hockey. Several competition divisions are offered to accommodate various skill levels.

A unique aspect of the UCF program is referee development, in which students can be trained to officiate sports, earn money on campus, and have an opportunity to work in the Orlando community. To sign up for a team, as an individual, or for more information, visit <http://www.rec.ucf.edu> or call 407-823-2408. Get involved and remember to take a little time each day to play.

LEAD Scholars Program

Director: Gary Morgan; SU 207; 407-823-2223
<http://www.lead.sdes.ucf.edu>

The LEAD (Leadership Enrichment and Academic Development) Scholars Program is an intense and comprehensive two-year student development program for competitively selected, academically talented first year college students with experience and interest in leadership, academic excellence, and community service. LEAD Scholars join in a unique partnership with faculty, staff, and alumni community leaders as a way to make an immediate connection with academic and community life.

The general goal of the LEAD Scholars Program is to prepare students to be effective community leaders in personal, professional, and civic communities. This goal is achieved through three venues: academic excellence, leadership, and community service. Students are integrated with faculty in the colleges of Arts and Humanities, Business Administration, Education, Engineering and Computer Science, Health and Public Affairs, and Sciences. These colleges hosts two credit Foundations of Leadership courses providing the primary means of facilitating the focus for study, advisement, and educational activities as it relates to leadership, academic excellence, and community service within the college. Students from any major are eligible to apply to the LEAD Scholars Program.

The program enables a selected number of students to develop professionally through a special mentoring relationship involving research and/or project development in their area of interest both on campus and in the community. Students are provided opportunities to work on project teams and special programs to develop their leadership skills. Specially structured community service projects are provided for students to enhance their community service development.

Students are selected for this two year program, prior to their freshman year, through a competitive process based on academic record, extracurricular and community activities, school recommendation, expressed interest in leadership, academic excellence, and community service. The LEAD Scholars Program serves as a bridge for participation in leadership opportunities as upper division students and in future community leadership roles.

LINK - First Year Experience Program

Assistant Director of Transition Leadership: Edwanna Andrews;
Coordinator: Kelli Williamson;
LEAD Scholars Suite, SU 207; 407-823-2223
<http://www.link.ucf.edu>

Learning and Interacting with New Knights (LINK) First-Year Experience program is designed to assist first-time-in-college students with their transition to the University of Central Florida (UCF) by creating, coordinating and promoting campus-wide co-curricular educational programming and activities. The main goals of the LINK Program are to get New Knights out having fun, meeting people, and getting connected to UCF. Through LINK, New Knights will be exposed to experiences that will enhance their academic experience and overall success and satisfaction at UCF.

The LINK Program works with various UCF student support departments and programs to identify educational programs that support opportunities for New Knights to transition to and become better connected to UCF during their first year on campus. These co-curricular programs complement the in-class academic experience and help first-year students develop the skills necessary to be successful in college. The LINK Program packages these educational programs under the LINK name and promotes them to first-year students in such a way to encourage their active participation.

As an incentive to encourage first-year students to participate in these educational programs, New Knights receive points for every LINK program in which they participate. These points are known as "LINK Loot." First-year students can acquire "LINK Loot" by attending and participating in a LINK-connected program. First-year students can use their "LINK Loot" points to bid on prizes at the LINK Auctions. A LINK Auction is held at the end of each fall and spring semester. A complete list of prizes is located on the LINK website at <http://www.link.ucf.edu>.

Off-Campus Student Services (OCSS)

Assistant Vice President and Director: Jimmy Watson; HAB 101; 407-823-6505
<http://www.housing.ucf.edu/ocsr>

Off-Campus Student Services assists students in their search for off-campus housing accommodations. The OCSS provides listings of off-campus apartments and/or resources for students needing to find roommates, storage, sublease, transportation, and furniture rental information.

Off-Campus Student Services also provides UCF students who live off-campus with information regarding a variety of on-campus programs and services. The OCSS fosters a supportive environment for off-campus students by providing an advocacy for resolving problems, "on the spot" or through campus referrals, and exploring other available resources for students. Students are encouraged to utilize the services offered by the Off-Campus Student Services Office, and to become acquainted with the many benefits the campus has to offer.

Office of Student Involvement

Director: Kerry Welch; SU 208; 407-823-6471
<http://www.GetInvolvedUCF.com>

The mission of the Office of Student Involvement (OSI) is to provide quality programs, services, and leadership opportunities that enrich students' academic endeavors. Students and staff collaborate to explore various paths that encourage personal growth, promote civic responsibility, embrace differences, and connect students to the campus and the community. In OSI, the journey is the destination.

Toward this end, the Office of Student Involvement staff members oversee the registration and management of almost 400 registered student organizations (RSO's) as well as directly advising and coordinating the following student groups: Campus Activities Board (CAB), Fraternity and Sorority Life, Homecoming, Knights of the RoundTable (KoRT), Late Knights, Multicultural Student Center (MSC), Student Government Association (SGA), and Volunteer UCF (VUCF).

REACH for WELLNESS Program

Assistant Director for Health Promotion: Peter Mastroianni,
RWC 111, 407-823-5841
<http://www.hs.sdes.ucf.edu/wellness.htm>

Reach for Wellness, a division of UCF Health Services, is located on the first floor of the Recreation and Wellness Center. The service encourages students to make low-risk and responsible decisions about college health and wellness issues through one-on-one and peer group interactive educational programs.

Division of Student Development And Enrollment Services

Program topics include: good nutrition on a student budget, relaxation strategies for busy students, weight management, smoking cessation, body image and sexuality issues. Workshops are scheduled in residence halls, club meetings, and classes.

Free and low-cost services include: the Comprehensive Health Assessment and Motivation Program (CHAMP), licensed massage therapy, biofeedback relaxation therapy, registered dietitian appointments, confidential and anonymous HIV testing, and body fat and blood pressure checks.

Participants can earn "LINK Loot."

Recreation and Wellness Center

Director: William Ehling; Recreation and Wellness Center; 407-823-2408
<http://www.rec.ucf.edu>

The Recreation and Wellness Center (RWC), an integral and active service of the diverse University community, supports and strengthens the mission of the University of Central Florida. Our mission is to foster healthy lifestyle choices and wellness through efficient services, comprehensive programs and high-quality facilities. The Recreation and Wellness Center is designed to enrich campus life and advance the University's educational mission. Benefits of participation include the application of leadership, decision-making, problem solving, conflict management, communication and social skills. We strive to provide the safest, cleanest, highest quality, most dependable and enjoyable services. RWC is comprised of five different programs: Intramural Sports, Sport Clubs, Outdoor Adventure, Fitness, and Aquatics. The Recreation and Wellness Center is open to all students with a valid UCF ID. Memberships are available for non-students.

The Recreation and Wellness Center staff also operates the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft usage, and a nature trail. The facilities can be reserved for group activities by calling 407-823-2408.

RWC Indoor Facilities:

- Four indoor multipurpose courts
- 1/8 mile indoor track
- 12,000 sq. ft. weight floor
- 3,000 sq. ft. Cardio floor
- 41 ft. Climbing Tower
- Group exercise studio
- Spinning studio

RWC Outdoor Facilities:

- 230,000 gallon 6 lane outdoor pool
- 181,000 gallon Leisure pool ranging from zero to five ft. deep
- Eight sand volleyball courts
- Three basketball courts
- Seven tennis courts

RWC Park:

- Three lighted artificial turf fields
- Two softball/baseball fields
- Nine acre multipurpose field

Challenge Course:

- High Elements; 10 total; on two levels between 25-45 ft.
- Low Elements; 11 total
- The high elements course is one of only five in the country.

Rosen College of Hospitality Management Campus Life

Director: Tony Perry; 9907 Universal Blvd., Suite 201L, Orlando, FL 32819
407-903-8072

Student's campus life needs are met on the new Rosen College of Management Hospitality campus through the Student Administrative Services Office, Suite 201. Staffing and services provided through this office include: undergraduate and graduate student advising, student financial assistance, co-op planning and placement, career services, student club and organization support, student counseling, student disability services, off-campus student housing information, student activities programming guidance and support, and *UCF Golden Rule* interpretation.

Student Government

OSI/SGA Advisors: Director Kerry Welch & Assistant Director Christa Coffey; SU 214; 407-823-2191
<http://www.sga.ucf.edu>

The Student Government Association's purpose is to represent stu-

dent views on issues affecting UCF and to promote progressive changes that improve campus life. In advocating better communication and understanding among the UCF family, the Student Government Association also provides numerous services that affect student life. These services currently include computer labs, discount tickets to movie theaters and theme parks, free local calling on campus telephones, funding for legal services, recreational services and agency (Campus Activities Board, Homecoming, Volunteer UCF, Late Knights, and the Multicultural Student Center) programming. Money allocated by the Student Government Association for these services comes from activity and service fees that students pay during registration. Additionally, UCF clubs and organizations may receive funding for events, projects and travel to conventions. SGA coordinates its efforts with the Florida Student Association in lobbying for students' rights on local, state and national government levels.

Student Government Association's structure is modeled closely after the United States federal government system in that it contains three branches: executive, legislative, and judicial. The executive branch, composed of the Student Body President, Vice President, and staff, oversees the daily administrative operation of SGA. The legislative branch funds campus clubs and organizations and also passes bills and resolutions benefiting the student body. The judicial branch oversees hearings concerning constitutional and legislative issues.

All students are encouraged to take an active role in the Student Government Association. For information outlining how to become involved with SG or how your club or organization can receive funding, contact the Student Government Association offices.

Student Rights and Responsibilities

Assistant Vice President and Director: Patricia A. MacKown; FC 155; 407-823-6960
<http://www.osrr.sdes.ucf.edu>

By offering a wide range of services designed to assist as well as educate students in resolving their disputes, the Office of Student Rights and Responsibilities (OSRR) combines Student Legal Services, Dispute Resolution Services, and the Office of Student Conduct. OSRR provides a forum that contributes to the individual growth and development of the student's knowledge of community responsibilities, due process, conflict resolution skills, and University student conduct rules. Our resources are more effectively used by combining and referring within the judicial knowledge base that exists within these three services. The Office of Student Rights and Responsibilities publishes the Student Handbook, The Golden Rule, which contains more detailed information on student life. Copies of The Golden Rule can be obtained at Ferrell commons, room 155, or can be viewed on the web at www.goldenrule.sdes.ucf.edu

Dispute Resolution Services

Coordinator: Patty Farris; FC 154; 407-823-3477
<http://www.drs.sdes.ucf.edu>

Dispute Resolution Services enhances the University community by offering mediation training and services directed at resolving interpersonal disputes while promoting individual responsibility. Mediation is a private, voluntary, decision-making process in which one or more impartial persons (mediators) assist people, organizations, and communities in conflict to work toward a variety of goals. This service is available to the University community and is encouraged for those who have been unsuccessful in resolving their differences. Mediation training is conducted several times each semester and is offered at two different levels: 1) a basic introduction to conflict resolution skills and mediation techniques session; and 2) as an advanced mediation techniques session. Mediation services are provided to UCF students, faculty, and staff at no charge. Mediation training is provided to students at no charge, and to faculty and staff at cost. Dispute Resolution Services also offers educational workshops and outreach programs to foster understanding and promote harmony within the University community.

Student Conduct

Assistant Director: Dana Juntunen; FC 140; 407-823-2851
<http://www.osc.sdes.ucf.edu>

The Office of Student Conduct addresses alleged violations of the "Rules of Conduct" contained within the student handbook, The Golden Rule. This office is also responsible for advising students of their rights during the Student Conduct Review Process, dean's certification, and student eligibility checks. The rules of conduct can be found in the Golden Rule handbook and copies may be obtained at Ferrell commons, room 155, or can be viewed on the web at www.goldenrule.sdes.ucf.edu

Division of Student Development And Enrollment Services

Students are urged to take advantage of the many services and educational programs available through the Office of Student Conduct and the Office of Student Rights and Responsibilities.

Student Legal Services

Assistant Vice President and Director: Patricia A. MacKown; FC 155; 407-823-2538
<http://www.stulegal.sdes.ucf.edu>

Student Legal Services provides students with advice and consultation, including court representation, in selected areas of law such as landlord/tenant, consumer, simple wills, traffic, and criminal. Each eligible student (i.e., an undergraduate or graduate student currently enrolled in UCF) is entitled to consult free of charge with a Program Attorney about any legal matter not excluded by program guidelines. Students in need of legal services should contact Student Legal Services at 407-823-2538, or visit Ferrell Commons, Room 155. This service is by appointment only and no legal advice is given over the phone.

Student Union

Director: Suzanne Halpin; SU 312; 407-823-2117
<http://www.studentunion.ucf.edu>

The Student Union is the meeting place on campus and provides the campus community with a variety of meeting places, offices, programs, and services. The Union is home to a great variety of restau-

rants including Joffrey's Coffee, Smoothie King, Steak Escape, Uncle Al's Famous Hotdogs, Subway, Sbarro, Mrs. Field's, Pretzel Time, Wackadoo's Grub and Brew along with two new restaurants: Qdoba Mexican Grill and Burger King. Retail stores include Park Avenue CD's, Greek Unique, KnightStop Convenience Store, College Optical, and the UCF Computer Store. Other services located in the Union are the SGA Ticket Center, U.S. Postal Center, Kaplan Test Services, and ATM's from SunTrust, Bank of America, and the UCF Credit Union. For information, call 407-823-0001.

UCF Regional Campuses Student Services

Assistant Vice President: A.J. Range; University Tower, Suite 101, 2201 Research Parkway, Orlando, FL 32626
407-823-2609;

Director, Student Services, Eastern Region: Diana Weidman
Director, Student Services, Southern Region: Terry Exum
Director, Student Services, Western Region: Pamela Brady

The UCF Southern Region (Cocoa; 321-433-7950 or 321-433-7811) and UCF Eastern Region (Daytona; 386-255-7423) Student Services offices provide student services at the regional campuses, including: transfer and virtual orientation, career services and experiential learning, veteran services, transition or registration assistance, and accommodations for students with disabilities. In addition, the offices provide programming and assistance to clubs and organizations as well as various standardized test information.



UNDERGRADUATE ADMISSIONS



Undergraduate Admissions

Assistant Vice President: Gordon D. Chavis, Jr., J.D.;
Progress Energy University Welcome Center; 407-823-3000;
E-mail: admission@mail.ucf.edu;
<http://www.admissions.ucf.edu>

The Office of Undergraduate Admissions at the University of Central Florida coordinates the admission and enrollment of all undergraduate first-time-in-college, transfer, non-degree, and non-Florida state university transient students to the Orlando, Daytona, South Lake and Cocoa campuses. The office's primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to, achieve growth and success at, and benefit from attending the University of Central Florida.

The Office of Undergraduate Admissions seeks to attract students who are motivated, creative, and committed to academic excellence. The office will accomplish this through personal contacts, strategic communication, information management, and targeted recruitment. The office is dedicated to providing quality customer service through effective teamwork and through the development of collaborative partnerships with both internal and external communities.

The office administers several programs for prospective students and parents, including daily tours and information sessions, open houses, area receptions for admitted students, and high school and community college visits by admission counselors. It also provides

the opportunity to meet one-on-one with an admission counselor on campus. Please contact the office at 407-823-3000 or visit our website for further information. Office hours are: Monday/Thursday 9:00 a.m. to 6:00 p.m., Tuesday/Wednesday/ Friday 9:00 a.m. to 5:00 p.m.

Campus Visit Experience

Information sessions and campus tours are available through our "campus visit experience". All freshmen (ftic) and transfer prospective students and their families are encouraged to participate. The Campus Visit Experience, which includes both an information session and tour of the campus, begins at the University Welcome Center at 10:00 a.m. and 2:00 p.m., Monday through Friday, except holidays. Reservations are encouraged and can be made by visiting our website at www.admissions.sdes.ucf.edu. Group tours of up to 80 or special requests may be accommodated and can be requested by visiting our website.

Meetings with admissions counselors to discuss your particular concerns about admission to the University are available by appointment. You may contact the admissions office at 407-823-3000 or visit us at our website. Information sessions and campus tours are also available for students interested in our Rosen College of Hospitality Management. Please contact us at 407-903-8000 for further information.

Application for Admission

All interested applicants should complete the University of Central Florida "Undergraduate Admissions Application" and include the \$30 in U.S. Currency, non-refundable application fee. Students may also apply online at our web site, <http://www.admissions.sdes.ucf.edu>. Students should apply **several** months in advance of an anticipated start date. Mail admission applications to: Undergraduate Admissions Office, University of Central Florida, P.O. Box 160111, Orlando, FL 32816-0111. Questions concerning admission requirements and applications should be forwarded to the same address or by calling 407-823-3000.

Applications for admission can be submitted up to several months prior to the start of the term desired. The priority application deadlines are May 1 for the Fall semester (July 1 for Transfer students), November 1 for the Spring semester, and March 1 for the Summer term. The priority deadline for most financial assistance and scholarships is March 1. Information and an application for University housing are mailed at the time of admission to the University. Requests for housing are subsequently reviewed by date of the receipt of the housing application. **The University encourages applications from qualified persons of both sexes and from all cultural, racial, religious, and ethnic groups. The University does not discriminate on the basis of disability for admission.**

Applicants should understand that this *Undergraduate Catalog* outlines minimum requirements to be considered for admission and that admission to the University is selective. The satisfaction of minimum requirements **does not** guarantee admission. Conversely, Florida Department of Education policy allows the University to admit students to any semester as exceptions to the minimum requirements. The Undergraduate Admissions Office and the Admissions and Standards Committee are responsible for the admission of all undergraduate students under this exceptions policy.

Applicants must request that official transcripts from each educational institution attended be forwarded directly to the Undergraduate Admissions Office. To be considered official, all supporting admissions documents must be received directly from the issuing institution or testing agency. **All final supporting documents (official transcripts and test scores) must be received by Undergraduate Admissions no later than 10 days after the first day of classes.**

Note: Furnishing false or fraudulent statements in connection with an application for admission or residency affidavit may result in disciplinary action, denial of admission, loss of financial aid, and invalidation of credits or degrees earned.

Those enrolled students who have not submitted official completed records by the deadline will be placed on administrative hold. Students with these incomplete records will not be permitted to register for a future term until all official transcripts and other required documentation have been received. If, upon review of final transcripts, student records are not satisfactory, they may be placed on academic probation, have their admission status revoked, changed to non-degree or transient status, may become ineligible for financial assistance, and may, in some cases, be withdrawn from the University. In addition to the required documentation mentioned above, students must have a satisfactory conduct record at all schools attended.

Reactivation

Students who have submitted an application for admission to UCF as a degree-seeking student and do not attend, may reactivate the original application **within one year** of the term for which they first applied. To update the application, students should request and complete a reactivation form by the published application deadline date. This form is available in the Undergraduate Admissions Office, online, or by calling 407-823-3000. This process reactivates the application only; additional official credentials may be required. Admission for one term does not guarantee admission for a future term.

Limited Access Programs

Admission to the University **does not** guarantee admission to a limited access program. Some majors at the University limit the number of students who may enroll. Limited access status occurs when student demand exceeds available resources (e.g., faculty, instructional facilities, equipment) or when specific accrediting requirements apply. Criteria for admission are selective and include: indicators of ability and indicators of performance, creativity, or talent to complete required work within the program.

Orientation

All first-time undergraduate degree-seeking students are required to attend orientation prior to enrollment. Orientation information is mailed to all students offered admission to the University.

Admission Categories

Students may submit applications to the University for one of the following categories:

- Freshman (First-Time-In-College: FTIC)
- Dual Enrollment (includes early admission and dual enrollment, on- or off-campus)
- Transfer
- Second Bachelor's Degree
- Transient (one term enrollment only, not from a Florida public university)
- Limited Non-Degree Seeking

Upper Division Transfer students may also apply to one of many regional campus sites. Please refer to the application.

Freshman Applicants

Any FTIC student who meets (DOE) minimum admission requirements is encouraged to submit an application. Meeting these minimum requirements **does not** guarantee admission. The University will do everything possible to admit all qualified applicants who apply by the priority deadline date. If the number of qualified applicants exceeds the number the University is permitted to enroll, admission will be on a selective basis. An applicant's total high school record (including grades, test scores, educational objective, quality of courses completed, counselor recommendations, essay, and personal achievements and honors) will be considered in the selection process. The University reaffirms its Equal Educational Opportunity (EEO) commitments and seeks to increase diversity among the student body.

High School Diploma

Freshmen who are applying for admission to the University are required to have a high school diploma or a General Equivalency Diploma (GED).

Entrance Examination Scores

All applicants for admission must submit test scores from the Scholastic Aptitude Test (SAT I) or from the American College Test (ACT). In addition, any student whose native language is not English may be required to submit a Test of English as a Foreign Language (TOEFL) score.

High School Academic Units and Grade Point Average

All applicants must have earned a minimum number of high school academic units (year-long courses that are not remedial in nature) to be considered for admission. A grade point average (GPA) will be computed only on academic courses. Grades in International Baccalaureate, Advanced Placement (AP), (AICE), honors and dual enrollment courses will be given additional weight in the computation of the academic GPA. The high school academic unit requirements are as follows:

Academic Subjects	Units Required
■ English (three of which must have included substantial writing)	4
■ Mathematics (at or above the Algebra I level)	3
■ Natural Science (two of which must have included substantial laboratory requirements)	3
■ Social Science (included: history, civics, political science, economics, sociology, psychology, and geography)	3
■ Foreign Language (both credits must be in the same language)	2
■ Additional academic electives from the above five subject areas and courses recommended by the Florida Assn. of School Administrators, or other groups, and courses recommended by the Articulation Committee and approved by the Department of Education	3
Total Units	18

Applicant Eligibility

All applicants must meet the following Department of Education (DOE) minimum eligibility index standards to be considered for Admission:

Undergraduate Admissions

If the High School GPA is: HS GPA	Minimum test scores must be:	
	SAT	ACT
2.0	1140	25
2.1	1110	24
2.2	1090	23
2.3	1060	22
2.4	1030	22
2.5	1010	21
2.6	1000	21
2.7	990	21
2.8	980	20
2.9	970	20
3.0	*	*

*No minimum score required.

Each State university reserves the right under DOE rule (6C6.002) to establish admission criteria that exceed DOE minimums.

- Admission to the University is limited by space availability. The degree of competition for space depends on the number and qualifications of those who apply for admission. To increase the chance of admission, high school students should present credentials that are stronger than the minimum requirements for consideration as listed above. If the number of qualified applicants exceeds the number that the University is able to enroll, a waiting list will be established.
- A student applying for admission who does not meet established requirements may bring to the University other important attributes or special talents and may be admitted if, upon appeal and in the judgment of the Admissions and Standards Committee, the student can be expected to do successful academic work. The University will provide appropriate advising for each student admitted under this alternative.
- Students who have been enrolled in dual enrollment courses will be required to have a minimum "C" average (2.0 GPA) for all completed dual enrollment course work.
- A student must have two years of one foreign language in high school or the equivalent (minimum eight credit hours) at the post-secondary level, to be offered admission.

Dual Enrollment Applicants

High School students who have demonstrated exceptional academic ability may be permitted to enroll as University students while completing their high school programs. There are three types of dual enrollment programs:

1. **Early Admission** is for students who have completed their junior year in high school and would like to enroll at the University as full-time students for their senior year of high school. Students must submit an application for admission by the published application deadline date. In addition, the following information is required:
 - official copy of high school transcript(s);
 - official copy of Scholastic Aptitude Test (SAT I) or American College Test (ACT);
 - written letter of recommendation from high school counselor or school district permission form;
 - written permission from parents or legal guardian.

2. **Dual Enrollment On-Campus** is for students who desire to dual enroll on a part-time basis, taking one or two courses on campus, while completing their high school course work. Students must submit an application for admission by the published application deadline date, as well as all items listed above. Additional documentation may be required.

3. **Dual Enrollment Off-Campus** is for students whose high schools sponsor on-site courses at specific high schools. Students earn both high school and college credit for successful completion of course work. Each respective high school selects students who are eligible to participate in these programs. Contact your high school guidance office for detailed information.

Transfer Applicants

UCF welcomes transfer applications to the University. Students should submit either the University of Central Florida Undergraduate Admissions Application or apply online at <http://www.admissions.sdes.ucf.edu/underaplink.asp>, and arrange to have official transcripts sent from all colleges attended. The Undergraduate Admissions Office computes a grade point average

(GPA) for each institution attended, as well as a cumulative GPA on all college courses attempted. This computation does recognize plus or minus grades effective Fall 2001, but only recognizes grade forgiveness when it is used as part of an awarded State articulated Associate in Science degree or an Associate in Arts degree from a Florida public community college or Florida public university.

Applicants must have a current minimum GPA of 2.5, and must have a cumulative minimum GPA of 2.5 and be in good standing as a degree seeking student at the last institution attended to be considered for admission to UCF. Meeting these minimum requirements **does not** guarantee admission.

Transfer students are required to complete, at least, 30 hours in residence at UCF to earn a bachelor's degree. In addition, students must complete 48 hours in residence at UCF to be eligible to receive baccalaureate honors recognition at the time of graduation.

Transfer students are encouraged to review the current edition of UCF's "Transfer Counseling Manual" available in Florida public community college counseling offices. The manual provides the recommended community college course requirements for all majors as well as other helpful information.

Transfer Applicants With Fewer Than 60 Credit Hours

All college transfer applicants with fewer than 60 credit hours of acceptable credit must minimally meet freshman high school unit entrance requirements, the high school academic GPA, and minimum SAT or ACT scores; have at least a 2.5 GPA on a 4.0 system for all college-level academic courses attempted; and be in good standing (minimum 2.0 GPA) and eligible to return as a degree-seeking student to the last institution attended. Meeting these minimum requirements **does not** guarantee admission.

Transfer Applicants With an A.A. Degree From a Florida Public Institution

Admission of Associate in Arts (A.A.) degree graduates from Florida public community colleges and Florida state universities will be governed by the Articulation Agreement between the state universities and public community colleges of Florida, as approved by the State Department of Education. The agreement states that except for limited access programs, admission as a junior to the upper division of the University shall be granted to any graduate of a state-approved Florida community college or State University System institution who transfers directly to UCF (see Rule 6A-10.024), who has completed the university parallel program; and who has received the Associate in Arts degree, which includes all of the following:

- At least 60 credit hours of academic work exclusive of occupational courses and basic required physical education courses;
- An approved general education program of at least 36 credit hours;
- A GPA of at least 2.0 on a 4.0 system for all college-level academic courses attempted. (Only the final grade received in courses repeated by the student shall be used in computing the average.); and
- One year of college instruction in a single foreign language. (This requirement applies to those students without the required two units of foreign language in high school.) Students who receive an Associate in Arts degree from a Florida public community college or university prior to September 1, 1989, but who have not met the foreign language requirement may be admitted to the University on a provisional basis.

Any student admitted without two years of one foreign language in high school or the equivalent (minimum eight credit hours) of such instruction at the post-secondary level, must satisfy the admission requirement prior to graduation. Florida Community College Associate in Arts graduates are guaranteed the following rights under the Statewide Articulation Agreement (State Board of Education Rule 6A-10.024):

1. Admission to one of the eleven state universities, except to "limited access" programs (programs that have additional admission requirements);
2. Acceptance of at least 60 credit hours by the state universities toward the baccalaureate degree;
3. Transfer of equivalent courses under the statewide Course Numbering System;
4. Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate);
5. No additional General Education Core requirements;

6. Advanced knowledge of selection criteria for limited access programs; and
7. Equal opportunity with native university students to enter limited programs.

Should any guarantee be denied, students have the right of appeal through the Office of Undergraduate Admissions and the Admissions and Standards Committee.

Transfer Applicants - More Than 60 Hours, Have Not Received an A.A. Degree From a Florida Public Institution

Undergraduate transfer applicants who desire to be admitted as upper division students must have met, at least, all of the following requirements:

- A minimum of a 2.5 GPA and 60 credit hours of academic course work;
- The English and Mathematics requirements of the Gordon Rule; and
- A minimum of eight credit hours of college instruction in a single foreign language. This requirement applies to those students without the required two units of a single foreign language in high school.

Meeting these minimum requirements does not guarantee admission.

Second Bachelor's Degree Applicants

Second Bachelor's Degree applications are processed by the Undergraduate Admissions Office or the Registrar's Office.

Guidelines for which office students should make application to are outlined as follows:

- Students who **have never attended** the University of Central Florida as degree seeking undergraduate students must apply to the **Undergraduate Admissions Office**. Students should complete the regular undergraduate admissions application.
- Students who **have attended** the University of Central Florida as a degree-seeking undergraduate student should apply through the **Registrar's Office**. These students complete the "Readmission Application" form.

Credits From a Previous Baccalaureate Degree

Graduates from other regionally-accredited four-year U.S. institutions who apply for admission to work toward a second undergraduate degree must meet the regular requirements of the University (as defined in the "Undergraduate Degree Requirements" section of this *Undergraduate Catalog*). Students must meet all transfer GPA requirements. A baccalaureate degree or higher from another accredited four-year U.S. institution satisfies the General Education Program requirements and also provides exemption from the foreign language requirements for admission and graduation.

Transient Student Applicants

A student in good standing with a minimum 2.0 GPA at the last regionally-accredited institution attended who desires to enroll for one term at UCF may be considered for admission as a transient student. Such enrollment terminates at the end of one term and does not presuppose regular admission to the University. A transient student must submit an official transcript from the last institution attended. Transient student applications must be received by the appropriate application deadline. If a student's last school of attendance is a Florida public university, please refer to the "SUS Transient Students" section of this *Undergraduate Catalog*. Transient students are not eligible to receive financial aid. Registration is permitted on a space-available basis. Meeting minimum GPA requirements does not guarantee admission.

Limited Non-Degree Seeking Applicants

This classification allows a student to enroll in selected courses when the student may have no immediate intention of pursuing a degree program. Most opportunities in this status will occur away from the Orlando campus, for courses that are taught out of the regular semester or term cycle, or for special programs mandated by the State of Florida. Successful completion of courses while in this classification **does not** provide a basis for regular admission at a later date.

Programs using the Limited Non-Degree Seeking status include:

- High school dual enrollment
- Soldiers-to-scholars
- Continuing education
- Regional campuses
- Off-campus credit
- Teacher certification or re-certification

Students registering for classes in the Limited Non-Degree Seeking status are subject to the following regulations:

1. Students are required to provide evidence of their educational qualifications for attending classes in order to meet the intent of this enrollment classification;
2. Students who have been previously denied admission or disqualified for enrollment are not eligible;
3. Non-degree-seeking students are subject to the same rules and regulations as degree-seeking students;
4. Registration is permitted on a space-available basis;
5. A maximum of 15 undergraduate credit hours or 6 graduate credit hours may be earned as a limited non-degree seeking student;
6. International students may not register as non-degree-seeking since immigration regulations prevent foreign nationals from enrolling without admission to a degree or certificate program;
7. Limited Non-degree students are not eligible to receive financial aid nor to participate in intercollegiate sports; and,
8. Students must complete a Limited Non-Degree Seeking Status Registration Form.

Students registering in this category should be aware of the limitations of this status, and are encouraged to apply for regular admission to the University.

International Applicants

The University of Central Florida is authorized under federal law to enroll students on non-immigrant visas. All international candidates applying for admission to UCF must submit a University of Central Florida "Undergraduate Admissions Application," or apply online at <http://www.admissions.sdes.ucf.edu/underapplink.asp>. Because of additional processing time needed for non-immigrant students joining UCF on F-1 or J-1 Visas, those students should submit the application and all required academic documentation by the international admissions deadlines. These students must also complete and submit the required financial and immigration documents by the deadline. The deadlines for Fall semester are **February 1** (for students abroad) and **March 1** (for transfer students); for Spring semester, **July 1** (for student abroad) and **September 1** (for transfer students). The University does not accept admissions applications for Summer semester from F-1 and J-1 applicants from abroad or transferring from other U.S. institutions:

- Submit the completed UCF admissions application form with the required \$30.00 application fee (check or money order in U.S. currency). An online application is available on our web site at <http://www.admissions.sdes.ucf.edu/underapplink.asp>.
- Students who attended an international secondary school that uses a grading and evaluation system different from the U.S. system will need a document-by-document evaluation of the secondary school record in English. This record, which should include performance evaluations, grades for work completed over a period of at least three years, as well as any certificates earned, should be sent to one of the agencies listed below. They will translate it if necessary, evaluate it, and then send their evaluation directly to UCF. A grade point average should be calculated and must appear on this evaluation.
- If the student has attended any international universities, an English translation and evaluation of work completed at each institution will be necessary. Transcripts should be sent to one of the agencies below for a course-by-course evaluation. Please note that if 60 or more credit hours have been earned at a post-secondary institution, it will not be necessary to submit the secondary school records.
- Results of the TOEFL (Test of English as a Foreign Language) **may** be required of students whose first language is not English. Information about this examination can be obtained from TOEFL, P.O. Box 6151, Princeton, New Jersey, 08541-6151.
- Results of the SAT or ACT will be required if the student has earned less than 60 credit hours of college credit. Information regarding these examinations may be obtained from the College Board (SAT), P.O. Box 592, Princeton, NJ, 08540 or from ACT, P.O. Box 414, Iowa City, Iowa, 52243. While there are no specific minimum score requirements on these examinations for admission, they are used in conjunction with other required credentials, and students should prepare sufficiently to achieve the highest possible score on these exams.

Undergraduate Admissions

Applicants must file a "Certification of Finances" form and supporting financial documents indicating financial support to cover educational and other expenses for the first year of study with the International Services Center. This form and other required documents must be on file **prior** to the issuance of the I-20 or DS-2019 forms by the University.

Educational Translations and Evaluations

Foreign diplomas must meet the requirements specified in Florida Statutes, section 229.814. UCF will accept English translations and evaluations of academic credit from these agencies:

Josef Silny and Associates, P.O. Box 248233, Coral Gables, FL 33124, (305) 273-1616	World Education Services P.O. Box 745, Old Chelsea Station, New York, NY 10113-0745, (212) 966-6311
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Mandatory Health Insurance for International Students on F-1 and J-1 Visas

Each international student on a F-1 or J-1 visa offered admission shall, **prior** to registration for classes, submit proof of required health insurance coverage with the Student Health Center to comply with the State of Florida mandatory health insurance requirement for F-1 and J-1 students. Minimum coverage limits can be obtained from the Student Health Center. Written proof of insurance must also be provided. If the insurance is issued by a foreign carrier or underwriter, a statement must be provided in English to assure that the policy meets the State of Florida minimum levels of insurance coverage. The University reserves the right to refuse registration to any international student on F-1 or J-1 visas who fails to comply with this insurance requirement or who is unable to supply satisfactory proof of insurance. The University also reserves the right to withdraw from classes any international student who fails to maintain insurance coverage, cancels insurance coverage, or avoids in any way the responsibility to comply with the insurance requirement.

Non-Academic Admission Clearances

Florida Department of Education Rule 6C-6.001(2) authorizes universities to refuse admission to applicants due to past misconduct. The University further requires the Vice President of Student Development and Enrollment Services or his/her designee to review all applications disclosing information regarding any prior criminal conviction or conduct problem at another institution and to make a decision as to whether the admission of this applicant will be in the best interest of the University. This statement describes the procedure and assigns responsibility for the review of these applications for admission. Applicants who fail to disclose any prior criminal conviction or conduct problem at another institution and such fact is subsequently discovered by the University, shall be denied admission or readmission, or may receive any other academic and/or disciplinary action prescribed by the University, including but not limited to academic dismissal.

Transfer Credit: All Applicants

All grades from a regionally-accredited college or university in transfer courses that are normally part of a baccalaureate degree program are shown on the student's permanent UCF record. Effective Fall 2001, the University recognizes a grading system of plus or minus. In addition, grade forgiveness is honored only if it has been awarded as part of an AA or a specific statewide articulated AS degree from a Florida public community college. Credit is not awarded based on job descriptions, life experience, or course work that is non-academic.

Accredited Institutions

For the purposes of this *Undergraduate Catalog* "Accredited Institutions" means those colleges and universities accredited by any of the following six regional associations:

- New England Association of Schools and Colleges;
- Middle States Association of Colleges and Secondary School, Commission on Institutions of Higher Education;
- North Central Association of Colleges and Schools, Commission on Colleges and Universities;
- Northwest Association of Secondary and Higher Schools, Commission on Higher Schools;
- Southern Association of Colleges and Schools; and
- Western Association of Schools and Colleges Accrediting Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges.

The accreditation status of all foreign institutions **must** be evaluated through either Josef Silny and Associates, Inc., or World Education Services.

All college level credits earned for which official transcripts have been submitted will be compiled into a "Transfer Summary Report" (TSR) soon after the student is offered admission. Some credits listed on the TSR may not be applicable toward graduation course requirements. The TSR will be the basis for constructing a "SASS Degree Audit," which applies earned credits to the intended degree program. The "SASS Degree Audit" provides the student with an assessment of which degree requirements have been met and what remains to be satisfied. Although all college-level course work transferred from a regionally accredited institution is shown on the TSR and the UCF transcript, applicability of the course toward a degree requirement is **determined by the college/school/department of the major**.

General Education Transfer Credits

Transfer students from Florida public community colleges or universities may satisfy the General Education Program requirements of UCF by completing the general education program prescribed by that institution. Transfer applicants with incomplete general education programs will have their credits evaluated on a course-by-course basis.

Credits From Private and Out-of-State Institutions

Transfer credit from private junior and senior colleges and out-of-state institutions will be evaluated on a course-by-course basis. Each student must submit the necessary petition(s) to the appropriate office(s) to determine which courses will transfer with regard to degree progress at UCF. Transfer courses that meet the requirements of the General Education Program and the Gordon Rule are determined through the process described in the "Undergraduate Degree Requirements" chapter of this *Undergraduate Catalog*. Petition procedures vary by college. Generally the petitioning of transfer courses for satisfaction of college and major requirements should be done during the second full term of the student's residency at UCF, so that the accepted transfer courses are understood clearly by the student and the faculty advisor early in the student's tenure at UCF.

Credits From Military Service School Courses

Completed military service school courses may be evaluated on the basis of the recommendations of the American Council of Education (ACE) when official credentials have been properly presented. While credit may be granted when courses are equivalent to those offered by the University, recommendations by the ACE are not binding upon the University.

Military credit is not accepted through transfer unless used as part of an Associate in Arts degree from a Florida public community college. Even though military records may have been evaluated by another regionally-accredited institution, it is important to have official credentials sent to UCF for evaluation. Credit is not awarded for basic training.

Baccalaureate Honors

Transfer students should be aware that eligibility for graduation with baccalaureate honors requires the completion of a minimum of 48 credit hours at UCF and is based upon an overall grade point average. For more details, refer to 'Academic Honors' within the "Academic Regulations and Procedures" section of this *Undergraduate Catalog*.

FINANCIAL ASSISTANCE AND FEES



Office of Student Financial Assistance

Executive Director: Mary H. McKinney; Millican Hall, Room 120;
Switchboard: 407-823-2827; Appointment: 407-823-5285;
Fax: 407-823-5241; E-mail: finaid@mail.ucf.edu
<http://finaid.ucf.edu>

Office Hours:

Monday: 9:00 a.m. - 6:00 pm
Tuesday, Wednesday, Friday: 9:00 a.m. - 5:00 p.m.
Thursday: 1:00 p.m. - 6:00 p.m.
(Hours subject to change during holidays and semester breaks.)

The Office of Student Financial Assistance manages resources for all students. Once financial aid eligibility is determined, the office provides options to help students meet their educational goals. Comprehensive counseling is available by appointment. Due to confidentiality, counseling by phone and e-mail is limited.

Student Rights and Responsibilities

Students have the right to full information about the financial aid programs available at UCF, our application procedures and 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 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 physical handicap. 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 the law.

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 March 1, to determine eligibility. 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 form as considered for attendance. UCF must be listed on the FAFSA in order to receive the data. UCF's Title IV code is 003954. Regulations are subject to change at any time.

Application Priority Deadline Date

All students must apply or reapply yearly for financial aid. To be considered for the full range of financial aid available, students should complete the Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA by mid-February. The processed results of the FAFSA must be received by UCF by March 1st to meet our application priority deadline date.

- If the priority date is missed, students should apply as soon as possible after that date to be considered for the financial aid that is still available, such as Pell Grants, Stafford Loans, and PLUS Loans;
- Students should not wait to be admitted to UCF before applying for financial aid;
- Federal Pell Grants and Stafford Loans are available on a year-round basis. Students may apply for financial aid in advance of any term and receive aid from these programs, if eligible;
- Students who apply for aid after July 15th should not expect their aid to be paid until well after the beginning of the fall semester;
- A broad range of scholarship programs is available with diverse criteria. Please review the scholarship information on the Web site for specific deadline dates for individual scholarships.

Application Procedures

- The FAFSA can be filed electronically at <http://www.fafsa.ed.gov>. A link is provided on the Web site and on myUCF.
- Messages from the federal processor should be reviewed thoroughly;
- Review all correspondence, follow instructions on the Student Aid Report, and follow through promptly. Delays can be costly as well as frustrating;
- Federal Regulations require that some students be selected for

Financial Assistance and Fees

verification. If selected, students will be asked to provide documents supporting the information submitted on the FAFSA. Sometimes subsequent requests for data may be necessary after initial submissions are reviewed. Prompt response to requests for additional documentation will expedite completion of this process;

- Offered federal funds and other need-based financial aid are not considered firm 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;
- To ensure enrollment in sufficient hours for the various financial aid programs, please refer to the Program Eligibility Charts on the Web site;
- Students must maintain UCF's Standards for Satisfactory Academic Progress;
- Students are required to inform financial aid of any additional sources of aid they expect to receive beyond those listed on the award notification. Any subsequent awards or income may necessitate a revision of the financial aid award(s). This includes, but is not limited to, any private scholarships or third party tuition payment/waivers, such as the Florida Pre-Paid Program;
- 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 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, 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 complete an entrance interview for a Federal Stafford Loan if they are a first time borrower at UCF;
- Students must be a U.S. citizen or an eligible non-citizen, (e.g. resident alien). Eligible non-citizens include I-151, I-551, and I-688 cardholders as well as some I-94 classifications;
- Students must have a high school diploma or GED certificate;
- For need based programs, students must show a financial need as computed on the FAFSA;
- A male applicant must be registered with Selective Service, if applicable.

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 March 1 to meet our application priority deadline date;
- Make a copy of tax return forms before submission to IRS;
- Start a folder to save financial aid information and photocopies of all documents filed and received. Include student's name and PID on all documents submitted. (Do not submit originals; documents will be shredded after scanning.);
- Maintain a current e-mail and mailing address on myUCF at all times at <https://my.ucf.edu>;
- Complete all items necessary to apply for both a Federal Pell Grant and a Federal Stafford Loan, even if it doesn't seem advantageous at the time. The law requires that students be considered for a grant before a loan is offered. Choosing a lender does not obligate the student to accept a loan, but will make it easier if additional funds are needed;
- Respond promptly to all information requests;
- If there are extenuating circumstances or problems at anytime, call the appointment line, 407-823-5285, to meet with a counselor;
- Comprehensive information can be found on the web site: <http://finaid.ucf.edu>.

School Costs

Estimated student budgets have been developed as a guide to help students anticipate their costs at UCF.

Estimated Cost of Attendance for 2007-2008

	Housing Status	
	Living with Parent	Other
Full-time Fall/Spring		
Tuition/Fees	\$ 3432.00	\$ 3,432.00
Books/Supplies	\$ 924.00	\$ 924.00
Room/Board	\$ 4,450.00	\$ 8,574.00
Personal Exp.	\$ 2,210.00	\$ 2,210.00
Transportation	\$ 1,592.00	\$ 1,592.00
Total (In State)	\$12,608.00	\$16,732.00
Non resident Tuition/Fees	\$13,254.00	\$13,254.00
Total (Out of State)	\$25,862.00	\$29,986.00

Financial Aid Programs Available at UCF

Financial aid comes in many forms, such as grants, loans, employment, waivers, and scholarships. The Program Eligibility Charts on the Web site under "Receiving Aid" list the various programs and their specific enrollment requirements. Detailed information for each program can also be found on the Web site under its particular title. Grants are considered gift aid and do not have to be repaid. Only undergraduate students who have not previously received a bachelor's degree and who demonstrate financial need are eligible for grant programs. Awards are based on the amount of available funds and the number of eligible applicants. To be considered for grant awards, students must meet eligibility requirements and have a valid FAFSA on file with the office.

Loans are borrowed funds that must be repaid. They provide undergraduate students with an opportunity to invest in their future. Undergraduate students must enroll for at least six hours at UCF in UCF classes to receive federal loans.

Federal Work Study is designed to provide students who demonstrate financial need a chance to earn money while pursuing a degree. Individual departments hire students while the Office of Student Financial Assistance determines the eligibility, award amount, and pay rate.

Scholarships are awarded based on various criteria, including 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.

Award Notification

Award notifications are mailed to first time UCF students after March 15th, while e-mail award notifications are sent to continuing students. Initial awards may be amended due to factors such as contingent admission status, less than minimum hours enrolled, lack of academic progress, changes needed due to verification, incomplete files, additional resources, etc.

Student awards will be based upon the student's financial need, the amount of available funds, the number of UCF students who qualify for aid, and the date the student completes the application process. 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 enrollment.

Admission to UCF must be finalized with no contingencies. Students must be classified as degree seeking.

Verification must be completed. Students must meet the Standards for Satisfactory Academic Progress. If all eligibility is met, financial aid funds may be disbursed.

It is the student's responsibility to be aware of minimal hourly requirements for each program, which can be found on the Program Eligibility Charts on the Web site. When requirements are no longer met, awards will be adjusted as necessary and will appear on myUCF. All awards are subject to change.

Deferrals of Tuition and Fees

Financial aid awards will normally result in a deferral of tuition and fee payments. Deferrals allow for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid disbursements are made, which is normally two to three weeks after the semester begins. Students are responsible to pay any amount owed to the university that is not covered by estimated aid and/or other resources by the payment deadline. The deferral process occurs automatically if the student is meeting all general eligibility requirements and has enrolled in sufficient hours for the finan-

	Deadline	Minimum Credit Hrs. Required	Available to Graduate Students	Second Undergraduate Degree Seeking
Federal Pell Grant Students must be considered for a Federal Pell Grant before other forms of aid will be offered; covers a maximum of two full-time semesters a year.	Varies	Prorated based on hours	No	No
Federal ACG (Academic Competitiveness Grant)	Varies	12	No	No
Federal SMART (National Science and Mathematics Access to Retain Talent) Grant	Varies	12	No	No
Federal SEOG (Supplemental Educational Opportunity Grant)	March 1	12	No	No
UCF Grant	March 1	6	No	No
FSAG (Florida Student Assistance Grants)	March 1	6	No	No
Federal College Work Study On-campus jobs; award earned as hourly wage. Not available to post-baccalaureate students.	March 1	6	Yes	Yes
FWEP (Florida Work Experience Program) Off-campus jobs directly related to a student's major or career goal. Students work from 25-40 hrs/week and are paid an hourly wage. Program is administered by the Cooperative Education Office.	Varies	6	No	No
Federal Stafford Loan Program Repayment may be deferred. Loan amounts vary as well as interest rates and repayments options.	Posted each term	6 at UCF in UCF classes	Yes At least half-time at UCF	Yes
Federal Perkins Loans Currently are made at 5% interest rate; loans deferred until 6 or 9 months after the student graduates or drops below 1/2-time. Not available to post-baccalaureate students.	March 1	6	Yes At least half-time at UCF	Yes
Scholarships A broad range of scholarships are available through federal, state, institutional, and private sources. Each has different eligibility criteria. Consult the "Scholarship" online listing for more information. Inquire about ROTC scholarships at the ROTC office.	Varies year round	Varies	Yes	Yes
Federal Unsubsidized Stafford Loans These loans operate under the same terms as subsidized Federal Stafford Loans except that financial need is not necessary. In addition, the student is responsible for the payment of interest as it accrues, (alternatively the interest can be capitalized into the loan balance).	Posted each term	6 at UCF in UCF classes	Yes At least half-time at UCF	Yes
Federal Parent Loans for Undergraduate Students (PLUS) These are loans that parents take out on behalf of their children (student must be dependent for financial aid purposes).	Varies	6 at UCF	No	Yes

FINANCIAL ASSISTANCE AND FEES

cial aid program/s. Please refer to the Program Eligibility Charts on the Web site for more information. Students should use myUCF to obtain up-to-date information. Since awards are subject to change, deferments are also subject to change. Deferments based on estimated Stafford loans will be canceled prior to the beginning of the semester if the student has not completed the loan application process. Students must drop classes prior to the end of add/drop in order to not be fee liable for those classes. If students do not drop their classes, a financial aid deferment may keep the classes active even if they are never attended.

Disbursements

Financial aid disbursements begin the second week of each term. Students should be aware of this, so 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 for Books is available for students to help with these expenses. The application is available for download prior to each term, so that funds may be available as early as the week before the first day of classes. Students who apply late for financial aid should be prepared to cover their own living expenses, out-of-pocket, well into the semester. When financial aid disburses, the funds first apply towards university debts. The remaining balance is refunded to the student one of two ways. If a student has set up Direct Deposit on myUCF, then the refund is deposited into the student's bank account. Otherwise, a check is mailed to the student's current mailing address listed on myUCF.

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.

To meet the standards adopted by the University of Central Florida, a student must:

- Complete a minimum of 70% of the attempted hours taken during the course of the year. Compliance of this requirement is checked at the end of each spring term. If students fail to meet this requirement or were not enrolled during the last monitoring period (fall/spring), a review of total hours taken at UCF will occur to determine if a 70% completion rate was attained for all attempted UCF course work. If a student fails to pass both of these reviews, the student will be placed on Satisfactory Academic Progress cancellation status, effective the following academic year, beginning fall term. Students on probation must meet standards each term.
- Graduate within the number of hours allowed by the Satisfactory Academic Progress policy. Students are allowed a specific number of UCF attempted hours, based on their academic level at the time of admission to UCF. (see chart next page)
- For detailed SAP policy information, please refer to the Office of Student Financial Assistance Web site at: <http://finaid.ucf.edu>.

CLASSIFICATION	Time Limit Allowed For Completing Degree
Undergraduate Freshman Transfer Sophomores Transfer Juniors Transfer Seniors	180 Attempted UCF Hours 135 Attempted UCF Hours 90 Attempted UCF Hours 45 Attempted UCF Hours
Second Degree	60 Attempted Hours
Masters	70 Attempted Hours
Specialist	100 Attempted Hours (Including all Graduate hours)
Doctoral	120 Attempted Hours (Including all Graduate Hours)

Re-establishing Eligibility after Cancellation

Any student with extenuating circumstances, (i.e., 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% of the attempted hours and since cancellation, he/she has brought up the percentage to a minimum of 70%, the student may appeal to the above committee for reinstatement, at that time.

To appeal, the student must:

- Complete the Satisfactory Academic Progress Appeal Form; (available on the Office of Student Financial Assistance Web site at: <http://finaid.ucf.edu>, under forms.
- Attach documentation supporting specific circumstance(s) to the appeal form; and
- Submit the appeal and the supporting documentation to the Office of Student Financial Assistance.

After a thorough evaluation of the written request and all supporting documentation, the Financial Aid Review Committee will notify the student of the decision by e-mail communication or the student may view the updated status on myUCF, under View Financial Aid Status.

Transfer Students

Be informed. Not all financial aid programs are transferable and eligibility for some programs will be determined by UCF. The application process must be complete; pay close attention to priority filing dates. If a FAFSA for the year in question has already been filed, request that the federal processor forward the information to UCF, Code 003954, by utilizing Part II of the SAR, or by calling the federal information center at 1-800-4 FED AID. The To Do List on myUCF will indicate any required forms.

Independent Students

You will be classified as independent for financial aid purposes only if at least one of the following applies:

- you are 24 years of age or older by December 31 of the award year;
- you are married at the time the original FAFSA was filed for the year;
- you are or will be enrolled in a master's or doctoral program (beyond a bachelor's degree) during the school year;
- you have children who receive more than half their support from you;
- you have dependents (other than your children or spouse) who live with you and who receive more than half their support from you and will continue to receive more than half their support from you through June 30th of the school year;
- you are an orphan or ward of the court (or were a ward of the court until age 18); or
- you are a veteran of the U.S. Armed Forces. ("Veteran" includes students who attended a U.S. service academy and who were released under a condition other than dishonorable.)

Dual Enrollment

Students who have been approved to take classes at another institution might have those hours counted toward meeting financial aid requirements for some programs at UCF. Dual enrollment will not meet eligibility criteria for institutional aid programs. Courses must meet some major or general education requirements to be calculated as part of student aid eligibility. All of the following documents must be submitted to the Office of Student Financial Assistance on or before the withdrawal deadline of the semester in which aid is to be disbursed:

1. Advisor Certification Form with all required signatures;
2. A copy of the Fee Invoice and class schedule confirming that the classes and hours enrolled match the Transient Student Form;
3. A completed Consortium Agreement Form to be completed by the transient school financial aid office.

Dual enrolled students must make arrangements to pay tuition and fees at the visited school since there is no system for deferral of those tuition and fees. In addition, it is the student's responsibility to insure that the visited school promptly provides UCF with academic transcripts, confirming that the attempted hours are completed. Transcripts or grades should also be submitted to the Office of Student Financial Assistance. This will help avoid academic progress problems. Students who expect to receive funds under any of the federal loan programs must enroll for a minimum of six undergraduate hours at UCF in UCF classes to meet eligibility requirements.

Students may not receive financial aid from two institutions at the same time. Students must decide which of the two institutions is the primary school at which they are degree seeking and apply for aid there. Any inaccuracy will result in a mandatory repayment to one of the two schools for the overpayment.

Over Awards

An over award occurs when a student's award package has exceeded either the unmet need or cost of attendance, depending on the type of aid that has been awarded. To prevent over awards, it is extremely important to notify the Office of Student Financial Assistance of any potential awards not already listed on the student's financial aid award summary on myUCF. In the event of an over award, a student's award package is reduced to eliminate the over award, which may result in a repayment of the over award.

Refunds and Return of Title IV Funds

Students should be aware that if they withdraw from the university after having received financial assistance, they might have to repay a portion of that assistance. Students who received Federal Stafford Loans should also know that the Office of Student Financial Assistance is required to notify lenders of student withdrawals.

Professional Judgment

The formula used to determine eligibility for federal student aid is basically the same for all applicants. However, in some cases, special circumstances may be taken into consideration. Students with extenuating circumstances should schedule an appointment to review the situation with a counselor. There must be a very good reason to make any adjustments and proof must be provided to support any adjustments. The situation will be reviewed and a decision will be made through the Professional Judgment process.

Student Accounts Office

Associate Controller: Dan Mayo, MH 107, 407-823-2433

General Information

The Office of Student Accounts 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.

The Student Accounts Office is responsible for:

- Tuition and Fee Assessment/Refunds (Student Accounts, MH 107)
- Processing Payments (Cashier's Office)
- Overdue payment and institutional loans collection (Loans and Collections)

Schedule of Fees*

(http://www.iroffice.ucf.edu/character/current_tuition.html)

***Note: 2007-2008 tuition and fees had not been established at the time of this publication. Rates for the 2007-2008 academic year will be available in early July 2007. Fees are subject to change without notice.**

Tuition and Fees: Tuition and fees are established by the state legislature and 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 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.

Fee Invoice: A printed fee invoice confirms fees and course registration. Fee invoices are available on the web at <http://www.my.ucf.edu>, kiosks, and from the student's college advising offices. Students must obtain a current fee invoice prior to making payment at one of the payment locations. Fee invoices are not mailed.

Fee Payment Deadlines: All University tuition and fees must be paid by the published dates. Tuition and fees not paid by the payment deadline date for each term will result in late fees and could result in the cancellation of all classes.

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 so as to avoid additional financial obligations.

Student Financial Responsibility Statement

Registration at UCF requires students to acknowledge the following financial responsibility statement: "I accept responsibility for payment of my term tuition and fees by the published deadline. I understand that if I do not pay my tuition and fees or do not pay these fees by the due date, I may be charged a \$100 Late Payment Fee, my records will be put on hold, my account may be referred to a collection agency, and I may incur other financial consequences."

Payment Procedures

Payment must be received or postmarked no later than the fee payment deadlines specified to be considered on time. Non-cash payments (checks and money orders) placed in the 24-Hour Depository by the official fee payment deadline will be considered on time. **Payments cannot be transacted by telephone.**

Acceptable forms of payment:

- Cash (Main Cashier's Office)
- Checks
- Credit cards/ Debit cards

E-Pay — <https://my.ucf.edu> — E-Check or credit card — nonrefundable \$10 convenience fee per transaction. Payments made at anytime on the date of the published fee payment deadline will be considered on time.

2006-2007 Fee Schedule*

Fees Per Credit Hour	Florida Resident		Non-Florida Resident	
	Undergraduate (0000-4999)	Graduate (5000-7999)	Undergraduate (0000-4999)	Graduate (5000-7999)
Tuition	\$73.31	\$207.58	\$73.71	\$207.58
Non-Resident Fee	0.00	0.00	\$429.38	\$659.65
Building Fee	\$2.32	\$2.32	\$2.32	\$2.32
Capital Improvement Fee	\$2.44	\$2.44	\$2.44	\$2.44
Financial Aid Fee	\$3.68	\$10.37	\$3.68	\$10.37
Non-Resident Financial Aid Fee	0.00	0.00	\$21.46	\$32.98
Activity and Service Fee	\$9.37	\$9.37	\$9.37	\$9.37
Athletic Fee	\$11.09	\$11.09	\$11.09	\$11.09
Health Fee (per hour)	\$7.95	\$7.95	\$7.95	\$7.95
Transportation Access Fee	\$5.84	\$5.84	\$5.84	\$5.84
Total Per Hour Fees	\$116.40	\$256.96	\$567.24	\$949.59

2006-2007 Repeat Course Schedule*

Fees Per Credit Hour	Florida Resident		Non-Florida Resident	
	Undergraduate (0000-4999)	Graduate (5000-7999)	Undergraduate (0000-4999)	Graduate (5000-7999)
Tuition	\$73.31	0.00	\$73.71	0.00
Non-Resident Fee	0.00	0.00	\$429.38	0.00
Building Fee	\$2.32	0.00	\$2.32	0.00
Capital Improvement Fee	\$2.44	0.00	\$2.44	0.00
Financial Aid Fee	\$3.68	0.00	\$3.68	0.00
Non-Resident Financial Aid Fee	0.00	0.00	\$21.46	0.00
Activity and Service Fee	\$9.37	0.00	\$9.37	0.00
Athletic Fee	\$11.09	0.00	\$11.09	0.00
Health Fee (per hour)	\$7.95	0.00	\$7.95	0.00
Transportation Access Fee	\$5.84	0.00	\$5.84	0.00
Repeat Course Fee	\$161.70	0.00	\$161.70	0.00
Total Per Hour Fees	\$278.10	\$0.00	\$728.94	\$0.00

Other Fees: Resident and Non-resident*

UCF Campus Card Fee (per academic year)	\$10.00
Campus (ID) Card Replacement Fee	\$15.00
Material and Supply Fee (per term; approved courses only – varies per course)	\$5.00-\$45.00
International Student Service Fee (per term)	\$50.00
Equipment Fee (per term, for use of equipment) Business majors Full time: \$15.00; Less than full time: \$7.50**	
Equipment Fee (per term, for use of equipment) Music majors Full time: \$70.00; Less than full time: \$35.00**	
**These fees are subject to change by action of the Board of Trustees.	
Late Registration Fee (per term)	\$100.00
Late Payment Fee (per term)	\$100.00
Returned Check Fees:	
Check amounts up to \$50.00	\$25.00
Check amounts over \$50.00 and less than \$300.00	\$30.00
Check amounts over \$300.00	\$40.00 or 5%; whichever is greater
Zero Hour Registration: Students registering for zero credit hours pay for a minimum of one credit hour at the level they are classified. Fees are subject to change without notice.	
Note: 2007-2008 tuition and fees were not available at the time of this publication. Rates for the 2007-2008 academic year will be available in early July 2007.	

Mail – Please do not send cash — Include the student's PID on checks or money orders.

Address payments to: University of Central Florida
Cashiers Office
P.O. Box 160115
Orlando, FL 32816-0115

Payment Locations (refer to <http://fa.ucf.edu> for hours):

- Cashier's Office - Main Campus - MH 110 (407) 823-2614
- Cashier's Office - Brevard Campus (BCC Cocoa Campus) - BLDG 11 Room 204 - (321) 433-7615
- Cashier's Office - Daytona Beach Room 105 (no cash) - (386) 506-4073
- Cashier's Office - Palm Bay Room 115 (no cash) - (321) 433-5187/5188
- 24-Hour Depository - Millican Hall at Reflection Pond Entrance (no cash)
- Cashier's Office - Rosen College Campus Room 201A (no cash) - (407) 903-8187

FINANCIAL ASSISTANCE AND FEES

Financial Assistance and Fees

Credit card payments may be made online, through myUCF E-Pay (<https://my.ucf.edu>), or at any of the Cashiers' Offices. A mandatory, nonrefundable \$10 convenience fee will be charged each time a student chooses to pay tuition or other state mandated fees with a credit card through E-Pay.

Other Forms of Payment

Tuition and fees may be partially or completely paid by financial aid, Florida Prepaid, tuition waivers, or department grants. The student is responsible to pay any amount that is not covered by these types of payments by the fee payment deadline as described under Payment Procedures.

Financial Aid – see Student Financial Assistance for rules and procedures. All fees not covered by financial aid are due by the fee payment deadline.

Florida Prepaid College Plan

For any enrolled student who has a Florida Prepaid College Plan, the University automatically will defer only the portion of the tuition covered under the plan. All fees not covered by the plan are due by the fee payment deadline. If the student does not wish to utilize the Florida Prepaid Tuition Plan, the student must notify the Student Accounts Office (MH 107) by the last day of Add/Drop.

The standard plan will pay \$82.15 per credit hour (graduate or undergraduate level) for the 2006-2007 academic year. The plan does not cover the local fees of \$34.25 per credit hour, material/supply fees, or the UCF ID Service and Access fee. The local fee plan, which is indicated on the Florida Prepaid Tuition Plan card, will cover \$110.56 per credit hour. For further details on the Florida Prepaid Tuition Plan please visit our website www.fa.ucf.edu and click Forms. Then click on Student Services. Scroll down to Florida Prepaid Tuition Plan Procedures.

Note: the 2007-2008 tuition rates had not been established at the time of publication.

Tuition Waivers

State of Florida Employees Tuition Waiver

Full-time state employees may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of tuition and fees. State Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar <http://www.registrar.sdes.ucf.edu/calendar/academic/> for each term. Should the employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will be invalid and the employee will be liable for all applicable fees. The tuition waiver cannot be used for courses that have increased costs. These courses include, but are not limited to, continuing education courses, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, practicum's, third-attempt repeat courses and surcharges, co-ops, or applied individualized instruction in music, art, or dance, etc. Any state employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed tuition waiver form to the UCF Student Accounts Office (MH 107) by each term's fee payment deadline. See the Academic Calendar <http://www.registrar.sdes.ucf.edu/calendar/academic/> for each term for the fee payment deadlines. Employees may obtain the "State Employee Waiver Form and Instructions" from the Registrar's Office web-site at Students may list alternate courses on their waiver form to substitute for preferred courses that are completely filled. Courses that are not listed on the waiver form cannot be waived.

UCF Employees Tuition Waiver

All full-time general faculty, administrative and professional (A&P), and staff (formerly called USPS) employees of the University of Central Florida who are employed in an established position on the date fees are due and who meet academic requirements, including those employees on sabbatical, professional development, grants-in-aid, and educational leave, may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of tuition and fees. UCF Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar <http://www.registrar.sdes.ucf.edu/calendar/academic/> for each term. Should the UCF employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF employee will be liable for all applicable fees. Any UCF employee who uses an Employee Tuition

Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term's fee payment deadline. See the Academic Calendar <http://www.registrar.sdes.ucf.edu/calendar/academic/> for each term for the fee payment deadlines. **Prior to enrolling** into courses each term, refer to the Human Resources web site at <http://www.hr.ucf.edu/web/forms/benefits/tuitionwaiver.pdf> for eligibility requirements, course restrictions, and the waiver application form. Students are encouraged to list alternate courses on their waiver form to substitute for preferred courses that are completely filled. Courses that are not listed on the waiver form cannot be waived.

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://www.registrar.sdes.ucf.edu/calendar/academic/> 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 Add/Drop period; 2) Cancellation of a course by the University; or 3) The student is denied admission for any reason to a course offered by the University.

Partial Refund (25%)

25% of tuition and fees 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 at the end of the first quarter of classes during a summer session.

Exceptional Circumstances

Refunds for exceptional circumstances are available upon a withdrawal from one or more 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.

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 direct deposited into their checking accounts. Funds are usually available within 24-48 hours after disbursement, and enrollment only takes a few minutes. To enroll, sign in at my.ucf.edu and click on Student Self Service. Click on the Student Accounts icon, 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 borne by 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. Payment guidelines for off-campus registration are contained on the off-campus registration form.

Late Fees

Late Payment Fees apply to students who do not pay their fees or who do not pay their fees (or obtain a full fee deferral) by the payment deadline. The Late Payment Fee is \$100 per term.

Late Registration Fees are charged to Students who enroll following the close of Add/Drop for the term, who re-register, or who enroll for

the first time that term during Late Registration and Add/Drop. The Late Registration Fee is \$100.00 per term.

Fee Appeals

Students who desire to appeal a Late Registration Fee and/or a Late Payment Fee may make their appeal to the Fee Appeals Committee by initiating a student petition (Form 41-561). This form can be obtained online at fa.ucf.edu. Click Forms, Student Services, and Fee Appeals Petition. Students must submit their petitions to Student Accounts (MH 107) and may appear before the Committee (not mandatory). Forms faxed to Student Accounts should be addressed Attn: Fee Appeals (407) 823-6476.

Holds

Holds due to unpaid tuition and fees that prevent registration and the receipt of transcripts will automatically be removed overnight once fees are paid.

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 in the online *Web Enrollment Guide*. Statements in the *Web Enrollment Guide* 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 in day and evening sessions. Students should refer to the current *Undergraduate Catalog* or the *Graduate Catalog* for the complete Policy Statement.

Florida Residency for Tuition Purposes

At University of Central Florida, three offices are responsible for the review of residency for tuition purposes under Florida Statute 1009.21 (formerly 240.1201) and Board of Regents chapter 6C-7.005. The offices of Undergraduate Admissions and Graduate Studies determine residency for all first-time-on-campus students; the Registrar's Office reviews student requests for changes in residency once the student is enrolled. A first-time-on-campus student will be classified according to the information he or she includes on the application for admission, providing that no other information is available that calls into question the information contained on the application.

To qualify as a Florida resident for tuition purposes in accordance with State regulations, the student must be a United States citizen, resident alien, parolee, Cuban national, Vietnamese refugee, or other refugee or asylee so designated by the United States Citizenship and Immigration Service,

And

Have established a legal residence in this state and maintained that legal residence for 12 months immediately prior to the term in which they are seeking Florida resident classification. The student's residence in Florida **must** be as a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode incidental to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students, as defined by Internal Revenue Service regulations, a parent or guardian must qualify),

And

Submit the following documentation (or in the case of a dependent student, the parent must submit documentation) prior to the last day of registration for the term for which resident status is sought:

1. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:
 - a. Declaration of Domicile (**Note:** the Declaration of Domicile will support a claim of residency for tuition purposes only after a period of 12 months from the date that the Clerk of the Court notes that the declaration was sworn and subscribed to them.)
 - b. Proof of purchase of a home in Florida in which the student resides;
 - c. Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment records).

2. Documentation establishing bona fide domicile in Florida which is not temporary or merely incidental to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered as conclusive evidence of domicile:
 - a. Declaration of Domicile;
 - b. Florida voter registration;
 - c. Florida vehicle registration;
 - d. Florida driver license;
 - e. Proof of real property ownership in Florida (e.g., deed, tax receipts);
 - f. Verification of permanent employment in Florida by the employer, employment records, or other employment-related documentation (e.g., W-2 paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment. The document must show 12 consecutive months of Florida employment prior to the first day of classes of the term for which the student requests Florida residency;
 - g. Proof of membership in or affiliation with community or state organizations or significant connections to the State;
 - h. Proof of continuous presence in Florida during periods when not enrolled as a student;
 - i. Proof of former domicile in Florida and maintenance of significant connections while absent;
 - j. Proof of reliance upon Florida sources of support;
 - k. Proof of domicile in Florida of family;
 - l. Proof of admission to a licensed practicing profession in Florida;
 - m. Any other factors peculiar to the individual that tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida resident, including the age and general circumstances of the individual;
 - n. Proof of graduation from a high school located in Florida.
3. No contrary evidence establishing residence elsewhere;
4. Documentation of dependent/independent status (notarized copy of most recent IRS tax return)

Or

Be married to a person who has been a legal resident of the State of Florida for the required 12-month period and relinquish legal ties to any other state,

Or

Be a member of the Armed Forces on active duty stationed in Florida, or a spouse or dependent,

Or

Be a member of the full-time instructional or administrative staff of a state public school, community college, or university in Florida, a spouse or dependent,

Or

Be a dependent and have lived five years with an adult relative, who has established legal residence in Florida,

Or

Be a person who was enrolled as a Florida resident for tuition purposes at a Florida institution of higher education, but who abandoned Florida residency and then re-enrolled in Florida with 12 months of the abandonment,

Or

Be a full-time Latin American or Caribbean student who receives scholarships from the federal or state government,

Or

Be a United States citizen living on the Isthmus of Panama who has completed 12 consecutive months of college work at the Florida State University Panama Canal Branch, or a spouse or dependent,

Or

Be a graduate student of the Southern Regional Education Board's Academic Common Market attending Florida's state universities,

Or

Financial Assistance and Fees

Be a full-time employee of a state agency or political subdivision of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training,

Or

Be a U.S. Citizen who is a McKnight Doctoral Fellowship recipient,

Or

Be a qualified beneficiary under the Florida Pre-paid Post-secondary Expense Program per s.240.551(7)(a),

Or

Be an active duty member of the Canadian military residing or stationed in this state under the North American Air Defense (NORAD) agreement, or a spouse or dependent,

And

Submit a statement as to the length of residence in Florida and their residency qualifications under the above criteria. Students requesting Florida residency for tuition purposes shall apply to the appropriate admissions office if they have not yet enrolled, or to the Registrar's Office if they already are enrolled.

Residency Reclassification

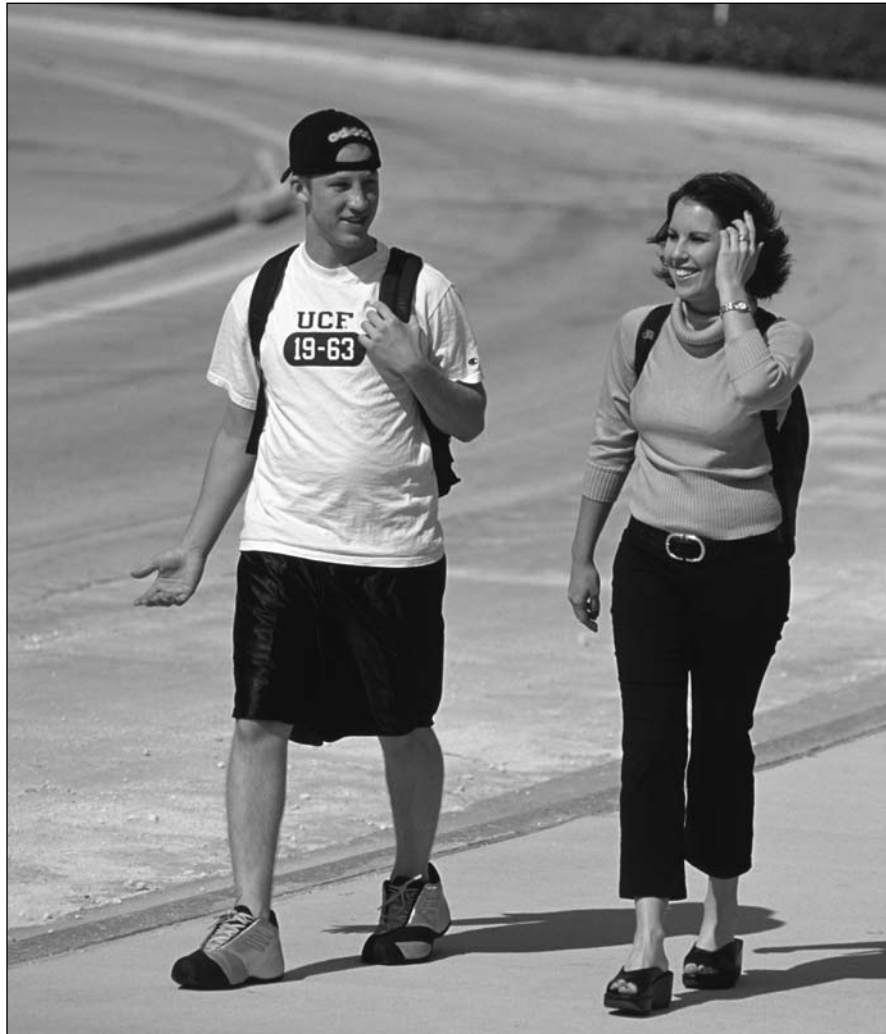
The offices of Undergraduate Admissions and Graduate Studies determine first term at UCF residency for tuition purposes for all newly admitted students. Thereafter, the Registrar's Office will review student requests for changes in residency. The Registrar's

Office cannot review student requests for residency reclassification to be effective with the student's first term of enrollment.

To request a residency review, the student must submit a completed "Residency Reclassification Application and Affidavit" and supporting documents to the Registrar's Office (MH 161). This form is available either at the Registrar's Office or online at <http://registrar.ucf.edu>. This form must be accompanied by all documents that support the student's Florida residency claim. Residency reclassification requests are subject to Florida Statute 1009.21, Florida State Board of Education Administrative Code 6A-10.044, and State Board of Education rule 6C-7.005. In addition, University policy requires students requesting residency reclassification to provide documentation establishing that they have income or personal sources to meet financial obligations of attendance and living expenses. Contact the Registrar's Office at 407-823-3100 for additional information regarding all residency reclassification requirements.

When building a case for Florida residency for tuition purposes, the student may choose to submit documents from a variety of categories. Students may consult the Registrar's Office before submitting the reclassification request and supporting documents. The submission of documents in itself does not qualify the student for Florida residency for tuition purposes. The Registrar's Office will evaluate the submitted documents and available information and will render an eligibility determination. UCF is authorized to make discretionary judgments as to residency within the bounds of the law and in reaching this professional judgment will evaluate all documents submitted and information available. No single document shall be conclusive.

Students seeking residency reclassification should understand that living in or attending college in Florida is not tantamount to establishing



residency in Florida for tuition purposes. The student who comes to Florida to enroll in a Florida post-secondary educational institution as an out-of state resident and continuously enrolls in a Florida institution normally will not meet the Florida residency requirement for in-state tuition regardless of the length of time enrolled. Living or attending school in Florida merely evidences physical presence. The student must provide documentation verifying that he or she has formed significant legal ties to the State of Florida. This documentation must establish that the Florida residence constitutes a bona fide domicile rather than serving the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education. Evidence establishing legal ties to states other than Florida may disqualify the student from Florida residency for tuition purposes. All determinative documents must be dated at least 12 months before the first day of class for the term in which resi-

deny is sought.

Students entering the second term of enrollment at UCF or later who believe that they qualify for Florida residency must submit the "Residency Reclassification Application and Affidavit" and all documents to the Registrar's Office (MH 161) prior to the close of "Late Registration and Add/Drop" for the term in which Florida residency is requested. Documentation received after the last day of "Late Registration and Add/Drop" will not be used to determine residency for the current term. Approved residency reclassification **will not** be applied retroactively to previous terms.

The Registrar's Office may require additional documentation beyond that initially submitted by the student or the claimant before it can render a reclassification eligibility determination and it will not complete its review of the residency reclassification application until both the student and the claimant have submitted all requested documents.

ACADEMIC ADVISING

Responsibilities

Academic advising is a process that assists students in the clarification of life goals and the translation of these goals into educational plans. It provides assistance to students as they explore educational opportunities and develop educational plans and objectives.

Academic advising connects students with the University by bringing meaning to its mission, its curriculum and to the learning environment that is the University community. Academic advising is committed to assisting and supporting students with developing their educational, career and life goals. It provides access to campus resources, and coordinates the integration of all aspects of student life into learning experiences. It is an individualized avenue of communication that assists students in the planning and decision-making process.

Although academic advisors provide assistance, it is the student's responsibility to know the university policies, procedures, requirements, and seek out assistance when needed. There are a variety of academic advising systems available at UCF in each of the colleges, schools, and the Division of Student Development and Enrollment Services.

Freshman (First Time in College - FTIC)

Every incoming freshman is assigned a professional first year academic advisor in one of the five offices listed below. These advisors also collaborate with the University's colleges and schools, and link students to advisors in various academic programs. The assignment of a first year advising office will be based on the specialized services of each program and the students' particular needs. Please know that although you have been assigned to an advisor in one of the offices, you are not limited to seeking help there. Contact the assigned advising office if you need to change advising offices. Academic advising is one of the most important services provided at UCF and can impact a student's successful progression to graduation.

New FTIC Students can expect to:

1. Attend a mandatory Orientation that will provide:
 - a. Initial academic advising in a group setting and preparation for the first semester, including schedule planning and registration
 - b. An assessment of high school grades, entrance and placement test scores, and AP, IB and CLEP credit
 - c. An awareness of expectations for success at UCF
 - d. Information about key academic policies and important deadlines
 2. Connect with their first year advising office according to the following designated priority order:
 - a. **First Year Advising and Exploration (FYAE)** - for first year students in the GOT, KSP, and EXCEL programs and those not in a special population listed below (PH 116)
 - b. **Academic Services for Student-Athletes (ASSA)** - for student athletes (WDSC 110)
 - c. **Student Academic Resource Center (SARC)** - for Participants in the College Achievement Program (CAP) or Pegasus Success Program (PH 113)
 - d. **Multicultural Academic and Support Services (MASS)** - for all students in the SOAR program (PH 102)
 - e. **Sophomore and Second Year Center (SC)** - for freshman students entering UCF with 45 or more college credits earned through accelerated mechanisms from AP, IB, CLEP, and/or dual enrollment courses (PH 221)
- These offices provide students with general education advising, academic exploration for undeclared students, academic support, registration assistance, and on-going information about University policies and procedures throughout the first year experience. For more information about the first year advising offices and their services, please see the "Student Development and Enrollment Services" chapter of this *Undergraduate Catalog*.
3. Participate in programs and advising activities that will promote a successful transition from high school to the university.
 4. Transition to an academic advising office within the college of the student's chosen major at the beginning of the sophomore year.

Burnett College of Biomedical Sciences

New students will:

Meet with the Office of Student Services and Advisement (OSSA) advisors in group settings during Orientation to:

1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.

Continuing students will:

1. Meet with an advisor in the Office of Student Services and Advisement (OSSA) in HPA II, room 325 every semester to check progress toward graduation and selection of program courses;
2. See their faculty advisor each semester to check on possible career and research opportunities;
3. See an advisor in the Office of Student Services and Advisement (OSSA) if pending major for limited-access Medical Laboratory Sciences program during the first few weeks of each semester to check progress toward eligibility for application to the major;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through myUCF;
5. Register at the scheduled appointment time. Complete all schedule changes by the end of the published add/drop period;
6. File an "Intent to Graduate Form" in the Department of Molecular Biology and Microbiology, Office of Student Services and Advisement (OSSA), by the end of the term prior to the term in which graduation will occur; and
7. Pre-health professional students: See Pre-Health Professions Advisor in HPA I 124, 407-823-2670.

Pre-Health Professions Advisement

The Pre-Health Professions Advisement Office (HPA 124; 407-823-2670) serves all students University-wide preparing for and seeking admission to professional schools of medicine, osteopathic medicine, dentistry, optometry, pharmacy, podiatry, veterinary medicine, chiropractic, physical therapy, and physician assistant programs. The services range from basic advising in pre-health professions matters, to providing a Composite Evaluation of the student to each professional school to which the student applies (upon his/her request after at least 30 credit hours of typical undergraduate pre-health professions courses taken at UCF).

Pre-Health Professional Planning

Preprofessional advisement deals primarily with application and admission procedures to professional schools.

Admission to a health professional school is highly competitive. Pre-health professions students are expected to be high achievers, and to obtain good grades with heavy loads and rigorous course combinations.

Most professional schools expect applicants to present at least a "B" average and to carry a minimum of 15 credit hours each term, with the exception of Summer terms.

Each student is urged to carefully select a degree-granting major. This will not only allow one to become more competitive for admission, but also to prepare for an alternate career in the event admission to a professional school is denied. **Any** degree-granting program may be selected as a major; however, the science majors generally lend themselves most adequately to pre-health professions preparation as their curricula includes many courses required for admission to most professional schools.

All students seeking admission to health professional schools should enroll in SLS 2311, Overview of Selected Medical Careers, on their first Spring semester at UCF.

Additionally, prudent use of elective hours in the curricula will permit other appropriate pre-health professions courses to be obtained.

All pre-health professions students are strongly encouraged to participate in the activities of one or more of the student health related organizations.

Curricula Guidelines

All pre-health professions students are strongly encouraged to enroll in SLS 2311 (Overview of Select Medical Careers) the first Spring semester they are enrolled. This course provides a broad exposure to the various four-year health professions. In addition, the entire preprofessional process (academic preparation, applications, admission tests, interviews, admissions, scholarships, etc.) is explained in depth.

All pre-health professions students should complete the following science courses (many of which are applicable to the GEP) to meet the variable requirements of the Florida medical schools:

Academic Advising

General Biological Sciences	BSC 2010C, 2011C*
Genetics	PCB 3063
General Chemistry	CHM 2045C, 2046, 2046L
Organic Chemistry	CHM 2210, 2211, 2211L
Biochemistry	BCH 4053
Biochemistry/Molecular Lab	BCH 4103L or BSC 3403C
Microbiology	MCB 3020C
Calculus	MAC 2253 (prefer MAC 2311, 2312)
Physics	PHY 2053C, 2054C or PHY 2048, 2049
Statistics	STA 2023

**Molecular Biology and Microbiology majors substitute BSC 3403C (Quantitative Biological Methods) for BSC 2011C*

For additional recommended courses, contact the Pre-Health Professional Advisement Office (HPA 124).

Dates of Importance

The preprofessional screening process is initiated every February. Application packets are available at the Pre-Health Professions Advisement Office during the month of February. Dental and veterinary medicine applicants should return completed packets by **April 15**. All other applicants (chiropractic, medical, optometry, podiatry, and pharmacy) are encouraged to return completed packets by **May 1**.

All students should be aware of registration deadlines and test dates for their specific admissions exam (DAT, MCAT, OAT, GRE, etc.). In addition, most four-year health professions schools subscribe to professional application services (AMCAS, ADDSAS, ACOMAS, etc.), thus require completion of a thorough application packet provided by the various application services. Otherwise, the student applicant must deal directly with the admissions office of the school.

The Burnett Honors College

New students will:

Attend the UCF Orientation designated for The Burnett Honors College. At this time students will meet with all Honors staff and will learn about The Burnett Honors College courses and GPA requirements.

Continuing students will:

1. Contact the department of their major and meet with a faculty advisor in the department during the first two months of any semester to review progress and plan a program of study
2. Meet with their academic advisor in the department of their major prior to registration
3. Contact the office of Honors Advising (BHC 107) and based on the recommendation from their academic advisor and the requirements for University Honors, an Honors Advisor will assist with Honors course selection
4. Continue to register for classes online
5. Check their "Fee Invoices/Schedule" to ensure accuracy of class schedule
6. Attend any mandatory Honors advising appointments

College of Arts and Humanities

Majors within the College of Arts and Humanities should meet with their major advisor concerning major requirements and an advisor in CAHSA, CNH 202 regarding all other issues.

New students will:

1. Meet in a **group** setting during Orientation with representatives from the College of Arts and Humanities to discuss college policies and procedures;
2. Meet with a major advisor to discuss major requirements, career opportunities, and plan a class schedule;
3. Refer any questions pertaining to university credit hour requirements and college/university policies and procedures to CAHSA,
4. Register for classes at a central location; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Continuing students will:

1. Meet with their major advisor in the department to review academic progress and plan a program of study for subsequent semesters. Review this plan each semester with their major advisor and prior to registration;
2. Access their SASS degree audit, view scheduled appointment time and search for courses/register online at <https://my.ucf.edu> each

- semester;
3. Submit overrides to CAHSA in order to be registered in special cases. Overrides are given at the discretion of the professor/department. If permission is granted, the override or registration form is provided by the professor/department and must be delivered to CAHSA by the student for processing;
4. Refer any questions pertaining to university credit hour requirements and college / university policies and procedures to CAHSA. All questions pertaining to major/minor requirements should be directed to the department advisor in the major or minor program;
5. Meet with their major advisor to conduct a graduation review of major requirements in the semester prior to the intended semester of graduation. After seeing the major advisor and in the semester prior to the term of graduation, students should go to CAHSA to file their "Intent to Graduate" packet and review their plan for completion of degree requirements. Please refer to the academic calendar for the deadline to file your intent to graduate.

College of Business Administration

The College of Business Administration seeks to provide its students with the highest quality academic advising. The intent of the advising system is to assist prospective and current business majors in the development of an educational plan.

New students will:

1. Meet college advising representatives in a **group** setting during Orientation to discuss college policy, procedures, and degree programs;
2. Review degree requirements at Orientation using SASS Degree Audit and catalog to better understand degree requirements and learn how to read a SASS Degree Audit;
3. Meet with your advisor in the Office of Undergraduate Student Support (USS; BA2 101) during their first enrolled semester to petition transfer work into their degree program;
4. Meet with a faculty advisor in the department of their major to understand the career options of your major; and
5. Be advised in the USS if your major is Business Pending.

Continuing students will:

1. Meet with a faculty advisor or advisors in the USS to review their academic progress and develop an academic plan. This plan should be reviewed prior to registration each term;
2. Pick up your SASS Degree Audit from myUCF. Check myUCF or the TV monitors for registration dates each term;
3. Register at your scheduled appointment time. Register in myUCF if you are in your major. All changes to your schedule must be completed by the end of the Add/Drop period;
4. Complete all prerequisites prior to admission to upper division classes; and,
5. Meet with your advisor in USS during the semester/ term prior to your graduation term. File your "Intent to Graduate Form" by the end of the term prior to the term in which you plan to graduate.

College of Education

New students will:

1. Meet college advising representatives in a **group** setting during Orientation to:
 - a. Discuss College of Education admission requirements needed for enrollment in 3000/4000 level classes
 - b. Review degree program requirements
 - c. Understand expectations and responsibilities associated with a career in education;
2. Be advised by the College of Education Office of Student Services (ED 110) if their major is Education Pending. An appointment is recommended (407) 823-3723; and,
3. Be assigned to a faculty advisor in the area of their major upon completion of College of Education admission requirements. The faculty advisor's name and telephone number appear on the SASS Degree Audit to assist students in making an advising appointment.

Continuing students will:

1. Set up an appointment with a faculty advisor **if accepted in a major** or the Office of Student Services, **if a "Pending" major**, to review academic progress and to develop an academic plan. Review this plan each term with an advisor prior to registration;

2. View a SASS Degree Audit through myUCF;
3. Register at scheduled appointment time in myUCF. Students with extenuating circumstances may register in person in the College of Education Office of Student Services. Students must complete any changes to their schedules by the end of the published Add/Drop period; and,
4. File an "Intent to Graduate Form" in the College of Education by the end of the term prior to the term in which graduation is intended.

College of Engineering and Computer Science

New students will:

1. Meet with the Engineering and Computer Science Academic Affairs representative in a **group** setting during Orientation to:
 - a. Review the College of Engineering and Computer Science (CECS) academic policies and procedures
 - b. Plan an appropriate first semester schedule;
2. Meet with a faculty advisor in the department of their major to:
 - a. Understand the career options of the major
 - b. Discuss degree program requirements; and
3. Be advised in the CECS Academic Affairs Office (ENGR 107) if Engineering Pending majors. Students are encouraged to seek advisement on determining a major as soon as possible. Failure to declare a major by the end of the first year may result in a delay of graduation.

Continuing students will:

1. Meet with an advisor in the CECS Academic Affairs Office or the department of their major during each term. Computer Science majors will be assigned a faculty advisor once they have passed the Computer Science Foundation Exam. Until that time, Computer Science majors will be advised by the CECS Academic Affairs Office or Computer Science Undergraduate Advising Office in HEC 246.
2. Set up an appointment with an advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through myUCF at <https://my.ucf.edu>;
5. Register at the scheduled appointment time in myUCF, or in person in the CECS Academic Affairs Office (AAO). Complete all schedule changes by the end of the published Add/Drop period;
6. Submit a written schedule plan signed by their AAO advisor each term if you have been placed on an engineering advisement hold. This plan must be submitted in person to the CECS Academic Affairs Office each time a student uses the registration process. and,
7. File an "Intent to Graduate Form" in the CECS Academic Affairs Office by the last day of classes of the term prior to the term in which the student intends to graduate.

College of Health and Public Affairs

New students will:

Meet college advising representatives in **group** settings during Orientation to:

1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.
4. Meet with an advisor in the COHPA Undergraduate Student Services Office during the first few months of the first semester to be advised toward the major.

Continuing students will:

1. See the COHPA Undergraduate Student Services Office (HPA 2, 115) during the first few months of each semester to check selection of program courses, assignment of a faculty advisor, and progress toward graduation.
2. View a SASS Degree Audit through myUCF frequently to check progress toward course requirements
3. File an "Intent to Graduate Form" with an advisor in the COHPA Undergraduate Student Services Office by the end of the term prior to the term in which graduation will occur.

College of Nursing

New students will:

Meet college advising representatives in **group** settings during Orientation to:

1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.
4. Meet during the first semester with an advisor in the College of Nursing Student Services Office (HPA 2, 115).

Continuing students will:

1. If **accepted in a nursing program**, students should see a faculty advisor during the first few months of each semester to select program courses and check progress toward graduation.
2. If a **nursing pending major**, see an advisor in the College of Nursing, Student Support Office during the first few weeks of each semester to check progress toward eligibility for application to the major.
3. View a SASS Degree Audit through myUCF; and,
4. File an "Intent to Graduate Form" in the College of Nursing Office of Student Support by the **end of the term prior** to the term in which graduation will occur.

College of Sciences

Although students may have several advisors for various reasons, majors within the College of Sciences must meet with their major department and their faculty academic advisor and/or the staff of the College of Sciences - Academic Support (COSAS; CSB 250) as soon as possible.

New students will:

1. Meet in a **group** setting during Orientation with representatives from the College of Sciences to discuss college policies and procedures;
2. Meet with representatives of the department of the major to discuss major requirements and career opportunities, and plan a class schedule;
3. Refer to COSAS any questions pertaining to General Education requirements, AP and CLEP credit, Gordon Rule, university credit hour requirements, university policies and procedures, etc;
4. Register for classes at a central location; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Continuing students will:

1. Contact the department of their major and meet with a faculty advisor during the first two months of any semester to review progress and plan a program of study;
2. Meet with their academic advisor in the department of their major prior to registration, and before the beginning of the term to ensure their schedule is still appropriate.
3. Access the class schedule and SASS Degree Audit online at <https://my.ucf.edu>;
4. Register for classes through <https://my.ucf.edu>. Special assisted registration (e.g., overrides, independent study, thesis) for College course must be handled in COSAS;
5. Refer to COSAS any questions pertaining to the SASS audit regarding GEP, CLEP, AP credit, Gordon Rule, university credit hour requirements, as well as policies and procedures. Questions about major requirements in the SASS audit should be directed to the department; and,
6. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Office of the Vice Provost

Office of Interdisciplinary Studies

All students must make an appointment to meet with a member of the Interdisciplinary Studies Advising Team prior to declaring a major in Interdisciplinary Studies.

New students will:

1. Meet with a member of the Interdisciplinary Studies Advising Team in an individual setting during orientation to discuss policies and procedures, degree program requirements and tracks, and plan an appropriate first semester class schedule;
2. Schedule a meeting with a member of the Interdisciplinary

Academic Advising

Studies Advising Team (Classroom I - Suite 302) to officially declare their major and create an individual plan of study;

3. Meet with an advisor in the department of their minor to review the minor's program requirements;
4. Refer to Academic Services any questions pertaining to general education requirements, AP and CLEP credit, Gordon Rule, and other policies and procedures as appropriate; and,
5. Register for classes online.

Continuing students will:

1. Meet with a member of the Interdisciplinary Studies Advising Team prior to registration and/or before the beginning of each term to review progress and selection of courses and address any questions pertaining to the program;
2. Access the class schedule and SASS Degree Audit and register online during their scheduled appointment time at <https://my.ucf.edu>;
3. Meet with an advisor in the department of their minor to review progress and prior to graduation, confirm that the minor requirements have been met;
4. File an "Intent to Graduate Form" in the Office of Interdisciplinary Studies by the end of the term prior to the term in which graduation will occur; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Rosen College of Hospitality Management

New students will:

Meet college advising representatives in **group** settings during orientation to:

1. Discuss degree program requirements;
2. Understand career options and major programs of study;
3. Plan an appropriate first semester class schedule; and,

4. Review and learn how to interpret a SASS Degree Audit through myUCF.

Continuing students should:

1. See their faculty advisor during the first few weeks of each semester to check progress and to select a program of study;
2. See a program advisor prior to registration to select courses;
3. View a SASS Degree Audit through myUCF and contact a program advisor in the Office of Student Services regarding questions or concerns; and,
4. File Intent to Graduate Form in the College's Office of Student Services (Suite 201, Rosen College Campus) during registration for the graduating term.

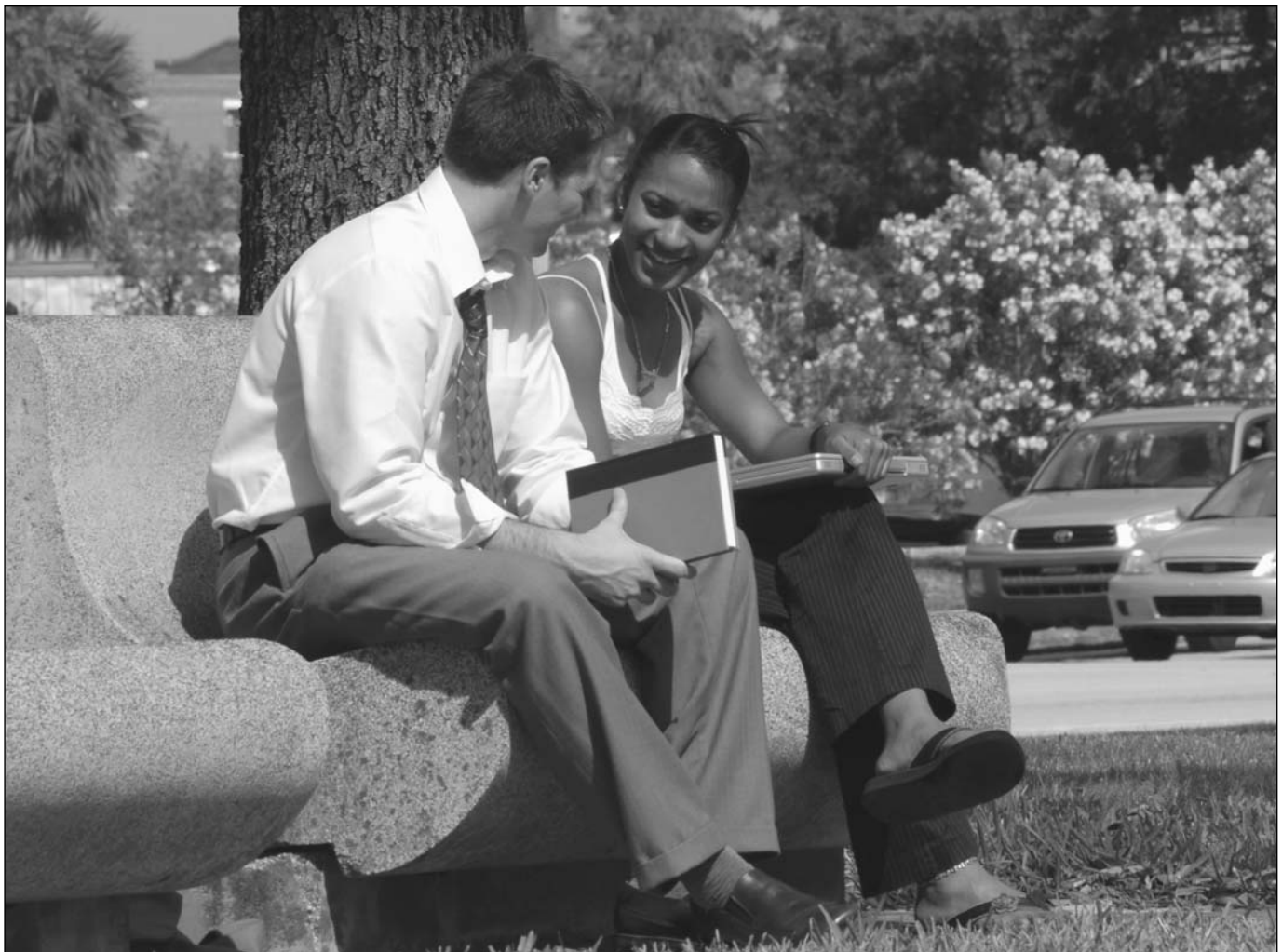
Regional Campus System

New transfer students may meet with a professional or faculty advisor prior to applying to UCF and at any time while enrolled to discuss programs and requirements. Students will meet with faculty or professional advisors in a group setting during Orientation to:

1. Discuss degree program requirements;
2. Understand career options of the major program of study; and
3. Plan an appropriate first semester class schedule.

Any student who has not been awarded an AA from a Florida public community college or state university and has not completed the UCF General Education requirements should make an appointment as soon as possible with an advisor at the appropriate UCF Regional Campus System location (or the Orlando Campus) to clarify University policies that will affect the student's status and graduation. Continuing students may meet with their advisors on an on-going basis.

For a list of the academic programs available through the Regional Campus System, see 'UCF Regional Campuses' within the "University of Central Florida" chapter of this *Undergraduate Catalog*.



TRANSFER AND TRANSITION SERVICES



Transfer and Transition Services

Director: Charlene A. Stinard; PH 221; Orlando, FL 32816-0123
407-823-5959; Fax: 407-823-3955; E-mail: tservices@mail.ucf.edu
<http://transfer.sdes.ucf.edu>

The following section presents information to help students accomplish a smooth and efficient transfer to UCF. Students transferring with an A.A. from a Florida public community college or state university are guaranteed certain rights and privileges according to the statewide Articulation Agreement. Students transferring without an A.A. from a Florida public institution will want to pay particular attention to UCF's general education program and how their transfer credits apply to their degree.

Students transferring with an A.S. in one of the articulated degree programs should refer to the "Articulated A.S. to B.S. Programs" chapter of this *Undergraduate Catalog*. Any questions about these programs should be directed to the Director of Transfer and Transition Services.

Where Can I Go For Help?

For information or assistance during the transfer process, you may contact the Office of Transfer and Transition Services, located in Howard Phillips Hall, room 221. Call the Student Hotline at 407-823-5959 or visit the web site at <http://transfer.sdes.ucf.edu>; an Instant Messenger feature allows you immediate access to staff during regular business hours.

The Office of Transfer and Transition Services provides the following services and resources:

- Accurate and current information about university programs and policies including entrance and exit requirements, as well as information concerning:
 - Transfer concerns and questions;
 - Course equivalencies;
 - Common program and course prerequisites;
 - Critical academic and transfer policies;
 - Foreign language requirements;
 - UCF critical dates and deadlines;
 - General advising and referral for transfer students before and after they enroll at UCF;
 - Individual appointments to discuss transfer issues;
 - Written articulation agreements between the university and community colleges;
 - Advising for currently enrolled transitioning students who are undeclared majors, undecided, or changing majors;
 - Transfer Peer Mentor advising services.

How Can a Community College Counselor or Advisor Help Me?

It is important that you are kept informed of all requirements for transferring to UCF. Community college counselors and advisors are provided with information and resources about the requirements to enter each program at UCF. They can help you determine which classes you need to complete before transferring. Additionally, they have access to information for limited access majors that have special requirements: application deadlines, GPA, testing, portfolios, letters of recommendation, etc.

Why Should I Complete My A.A. Before Transferring From a Florida Public Institution?

Receiving your A.A. from a Florida public institution ensures special benefits guaranteed under the statewide Articulation Agreement. The following are some of the advantages of receiving your A.A.:

- Priority in admission to state universities;
- Acceptance of at least 60 credit hours toward the baccalaureate degree; no additional general education core requirements;
- Acceptance of all courses taken at your institution, if the same course with the same course number is offered at UCF;
- Transfer of all accelerated programs (CLEP, AP, IB, early admission, and dual enrollment courses) within the A.A.; official test scores must be sent to receive UCF course credit;
- Advance knowledge of selection criteria for limited access programs; equal opportunity with UCF native students to enter limited access programs; and
- All grade forgiveness awarded under the A.A. will be honored.

If you do not complete an A.A. at a Florida public community college or university, you must complete UCF's general education requirements, which may be considerably different from your previous institution's requirements. In addition, no grade forgiveness will be honored. All attempted credits will be averaged into your GPA for admission purposes. If you have met all the A.A. requirements except the CLAST, you should have "General Education Requirements Met" placed on your transcript to assure getting credit for meeting General Education and Gordon Rule requirements. Without this statement you must satisfy UCF's general education requirements and Gordon Rule courses. If your grade point average falls below a 2.0 (without grade forgiveness), you will not be admitted.

Transfer and Transition Services

What If I Have Not Taken the CLAST?

Students may be admitted without completing the CLAST. However, without the CLAST completed, you **are not** awarded the A.A.; privileges provided by the A.A. **are not** granted, (e.g., grade forgiveness, Gordon Rule, and the completion of general education requirements).

If you have not met the CLAST requirement, you **must** take the exam in your first term of enrollment; you **must** satisfy all four parts of the CLAST by the time you have completed 36 hours of upper-division course work. UCF accepts the CLAST alternatives and waivers awarded by Florida public community colleges and universities.

Admission requirements have changed for students entering the College of Education. The General Knowledge Test (GKT) of the Florida Teacher Certification Examination (FTCE) may now be used as both an admission and graduation requirement for state-approved teacher preparation programs. The CLAST will continue to be an admission option for students, but does not satisfy graduation requirements.

For additional information concerning the CLAST, contact the Student Academic Resource Center: 407-823-5130.

What Are the Foreign Language Requirements?

To be admitted to the University you should complete two years of the same foreign language or American Sign Language in high school (document by submitting an official high school transcript), or 8-10 credit hours in the same language at the college level, or pass a CLEP or other proficiency examination. Students admitted without this requirement must satisfy it prior to graduation.

Some baccalaureate degrees require students to demonstrate foreign language proficiency as a graduation requirement; this requirement may be satisfied by college-level course work or testing equivalent to two semesters of college instruction. Some majors require additional proficiency; some departments accept American Sign Language to meet the proficiency. Consult the UCF *Undergraduate Catalog* for



graduation requirements for specific majors. High school courses will not satisfy graduation foreign language requirements. International students required to provide TOEFL scores for admission are considered to have satisfied the graduation requirement.

How Will My Credits Transfer?

All college level credits earned for which official transcripts have been submitted will be compiled into a Transfer Summary Report (TSR), which is available online. The TSR is the basis for constructing a SASS Degree Audit, which applies earned credits toward your intend-

Transfer Checklist

Before Completing the A.A.		Immunization	
___/___/___	meet with counselor or advisor for graduation check	___/___/___	date student health form submitted
___/___/___	complete application for graduation	Y___ N___	need immunizations
Application for Admission		Foreign Language Requirements	
___/___/___	date submitted	Y___ N___	2 years/units earned in high school
___/___/___	date admission status checked at https://my.UCF.edu	Y___ N___	8-10 credits earned at the college level
___/___/___	date of acceptance	Y___ N___	credits to be taken at the university
Transcripts (original transcript from all institutions attended)		Y___ N___	exempt from foreign language admission requirements
___/___/___	date transcripts sent from all current and prior institutions	Note: Although American Sign Language may be used to satisfy the UCF admission requirement, it may not satisfy graduation requirements of the specific major.	
___/___/___	date final transcript sent after term completed	Program (Major) Requirements	
Financial Aid/Scholarship		Y___ N___	limited access application
___/___/___	date financial aid application (FAFSA) sent	Y___ N___	completed prerequisites
___/___/___	date financial aid notification received from UCF	Y___ N___	met grade point average (GPA) requirements
___/___/___	date of SCHOLARSHIP application mailed or transfer notice sent to appropriate office	Y___ N___	met minimum cumulative GPA for admission to program of study
___/___/___	date of SCHOLARSHIP application response	Y___ N___	met cumulative GPA in courses taken for program of study
Housing		Y___ N___	met grade requirements for designated courses
___/___/___	___on-campus ___off-campus	Y___ N___	audition, portfolio, additional admission requirements met
___/___/___	date application sent (include deposit when required)	Y___ N___	CLAST exam or alternatives
___/___/___	date accepted	Orientation:	
		___/___/___	orientation date at UCF

ed degree program. The audit provides you with an assessment of which degree requirements have been met and which remain to be satisfied. You will use the audit to schedule courses that meet your remaining requirements.

Some credits listed on the TSR may not be applicable toward graduation course requirements; e.g., some departments do not accept a transfer grade of "D" (1.0). You should review the TSR carefully to ensure that all credits are included.

You must make sure that all official college transcripts, including a final transcript from the last institution you attended, are submitted to the Undergraduate Admissions Office within ten days of the start of your first term at UCF. If Admissions does not receive them, a hold is placed on your record, making it difficult for you to receive financial aid or to register for a future term.

When Do I Pay My Bill?

For students taking courses at UCF for the first time, tuition and fee payments are due by the published deadline. Students can print a copy of their fee invoice online from myUCF (<https://my.ucf.edu>). A late payment fee of \$100 will be assessed on all accounts not paid or deferred by each term's payment deadline. Please note that you will not be sent a bill. It is up to you to view your invoice through myUCF. If you decide not to attend, but have registered for classes, be sure to drop all classes, or you will be fee liable.

Financial Aid deferments will automatically be reflected on your fee invoice. If the total amount of your tuition and fees exceeds the amount of your deferment, the difference must be paid by the due date on your fee invoice. The following programs are not included in the automatic deferral program: work/study programs, third party deferments, other waivers, and direct pay scholarships.

Can Transfer Students Participate in The Burnett Honors College?

Qualified students who transfer to UCF with an honors A.A. from a Florida public community college that has signed an articulation agreement with The Burnett Honors College will be admitted into University Honors with junior standing. Community college transfers and other students who have completed their general education requirements may participate in the Honors in the Major program through the completion of departmental honors requirements, including an original research project. Transfer students who apply for admission to departmental honors programs must have a minimum GPA of 3.5 in their major. Successful completion of either honors program will be noted on your transcripts and diploma. For more information, call 407-823-2076 or visit the honors web site at <http://honors.ucf.edu>.



Transfer Tips:

Office Visits for Transfer Advising

- Students are encouraged to contact the Office of Transfer and Transition Services with questions or to schedule an appointment to meet with an advisor. Advisors are available Monday and Thursday, 8:30 a.m. to 5:30 p.m., Tuesday, Wednesday, and Friday 8:30 a.m. to 4:30 p.m.
- Transfer students accepted to UCF who are undeclared majors or are undecided about their major should contact Transfer and Transition Services prior to orientation for advisement.
- Undeclared students with 45+ credit hours are placed on advising hold.

Students should:

- Submit your application at least six months in advance. Do not wait until the A.A. is awarded to apply. You can be admitted "contingent upon completion of the A.A." if you meet specific admission requirements. By applying early and being admitted, you will be invited to an early orientation.
- Keep a transfer diary. For each contact with UCF, record the name of the person with whom you spoke, the date, and the type of request. Keep a copy of all letters you send and receive.
- Have original transcripts from all institutions you have attended sent directly to the Undergraduate Admissions Office. If you are currently enrolled, send a transcript when applying and a final transcript when classes are completed.
- Attend the earliest Orientation session possible. You will have more course selections and registration choices. You should bring copies of all transcripts (transcripts sent in for admissions purposes are not available for advising during orientation). You are advised and then allowed to register. Tuition and fee payments are due by the published deadline.
- Complete the "Student Health Form." Registration will not be allowed without the completion and approval of this form.
- Complete CLAST if possible; however, you can be admitted without it. Since the A.A. is not awarded without completion of CLAST, privileges provided by the A.A. are not granted (i.e., grade forgiveness, Gordon Rule, and the completion of general education requirements). Without completion of CLAST, but with **all** general education courses completed, you should request the following statement placed on your transcript: "General Education Requirements Met." Without this statement, you **must** satisfy UCF's general education requirements (including Gordon Rule courses).
- Complete the "Free Application for Federal Student Aid" (FAFSA). To be considered for **all** aid available, your financial aid file should be complete by **March 1**.

UNDERGRADUATE DEGREE REQUIREMENTS

Requirements for Graduation

Students must fulfill both the requirements for a major and University requirements to receive a bachelor's degree from the University of Central Florida. The student must:

- Fulfill the requirements for the chosen major;
- Earn a minimum of 120 unduplicated credit hours with at least a "C" average (2.0 GPA) for all UCF course work attempted. Some majors require more than 120 hours;
- Earn at least 48 of these 120 credit hours in 3000-level courses or above (upper-division);
- Earn a minimum of 30 of their last 36 hours in regular courses at UCF. Credit by examination may not be used to satisfy this requirement;
- Earn a minimum of 25% of the total hours required for the degree in residence at UCF. For programs that require the minimum of 120 total hours, residency will be 30 hours. For programs that exceed 120 hours, the specific residency requirement increases proportionally and is listed with the requirements for the specific degree program;
- Earn a minimum of 60 credit hours after CLEP credit has been awarded;
- Apply no more than 45 credit hours in any combination of extension, correspondence, CLEP, University Credit by Examination and Armed Forces credits toward an undergraduate degree;
- Fulfill the General Education Program requirements;
- Fulfill the Gordon Rule requirements;
- Fulfill the Foreign Language requirements as defined elsewhere in this section;
- Fulfill the CLAST requirement;
- Earn a minimum of nine credit hours during Summer terms, if applicable; and,
- Be registered at UCF during the semester of graduation.

Degrees Awarded Posthumously

Students will be considered for posthumous degrees by the Commencement and Convocations Committee if they are in good academic standing at the time of their death, have a 2.0 GPA or better and are within at least 15 credit hours of completion of all requirements or are in the final term of completion of all their requirements.

Choice of Catalog (Catalog Year) and Continuous Enrollment

A student must graduate under the provisions of any UCF *Undergraduate Catalog* in effect since the student began continuous enrollment at UCF. New Catalog policies and requirements take effect with the Summer term. A student transferring from Florida public community colleges or state universities may use the UCF *Undergraduate Catalog* in effect at the time he or she began the most recent period of continuous enrollment in academic good standing at any of the Florida public institutions.

Continuous enrollment is defined as being enrolled in classes without a break of two or more consecutive regular semesters/terms (i.e., Fall and Spring, or Spring, Summer, and Fall). Continuous enrollment is automatically broken when a student moves from one transfer institution to another following academic disqualification or exclusion.

Students who change majors between different colleges (including the Rosen College of Hospitality Management) must adopt the most current catalog. Additional information is included in the program descriptions. Students pursuing a single degree (including double majors and/or minors) must use a single catalog and cannot use a combination of catalogs for graduation. In cases when required courses are no longer taught by the University, the appropriate department, college, or Academic Services (MH 210) may designate a reasonable substitute. If a student desires to change the catalog for graduation, the student should first discuss with the advisors how such a change would affect University, college, and major requirements. If a student decides to request a change, he or she must submit a "Catalog Year Change Request Form" to the Registrar's Office (MH 161). This form is available at the Registrar's Office or online at <http://registrar.ucf.edu>.

General Education Program (GEP)

The purposes of the UCF General Education Program (GEP) are to introduce students to a broad range of human knowledge and intellectual pursuits, to equip them with the analytic and expressive skills required to engage in those pursuits, to develop their ability to think critically, and to prepare them for life-long learning. The GEP curriculum provides students with the intellectual, ethical, and aesthetic foundations necessary to make informed choices; to accept the responsibilities of working and living in a rapidly changing world; and to lead a productive and satisfying life.

Courses that fulfill the General Education Program requirements are specified, but in some cases an advanced course in the same discipline may be substituted for GEP requirements. These advanced courses, approved by the Faculty Senate Undergraduate Common Program Requirements Committee, are listed in the section identified as "Alternate Courses: General Education Program." Students should consult with an advisor before enrolling in an advanced course. Undergraduate students who have not completed requirements for the Associate of Arts degree and who desire to transfer to another Florida public university can have their transcripts indicate "General Education Requirements Met" upon written request, if they have completed UCF's GEP requirements with a GPA of 2.0 or better. UCF will accept a similar statement on transcripts received from Florida public community colleges and universities in lieu of completion of the University's General Education Program. Students enrolled in courses that use the "NC" grade must earn a grade of "C-" (1.75) or better.

General Education Program Learning Objectives

Communications Foundation

- Demonstrate the ability to analyze the situational characteristics of a communication act: audience, purpose, and source/author.
- Demonstrate the ability to understand communication and speaking skills.
- Demonstrate the ability to write in a clear, logical and appropriate manner.
- Demonstrate the ability to research academic topics and present the synthesis of that research 1) in speech with appropriate citations and 2) in texts with correct documentation.
- Demonstrate an awareness of diversity in American society.

Cultural and Historical Foundation

- Be able to gather, synthesize, and analyze information from appropriate resources and be able to critically evaluate information and sources for accuracy and credibility.
- Identify and deepen appreciation of common human themes and the richness of diverse cultures.
- Be able to analyze and discuss meaning of an artwork, performance, or text in diverse aesthetic, historical and cultural contexts.
- Demonstrate knowledge and critical thinking of the concepts, styles, and aesthetic, theoretical, and critical principals in an art.
- Demonstrate knowledge of the chronology and significance of major events and movements in western civilization, U.S. history or world civilization.

Mathematical Foundation

- Demonstrate the skills needed to solve quantitative problems including choosing the proper technique and/or technology.
- Be able to solve real-world quantitative problems.
- Demonstrate qualitative understanding of mathematical, statistical, and computing concepts.
- Demonstrate knowledge and understanding of essential computing concepts common to academic degrees and their related professions.
- Demonstrate essential computing skills common to academic degrees and their related professions. In particular, skills relating to professional use of computers and application software.

Social Foundation

- Be able to gather and synthesize information from appropriate resources, and be able to evaluate information and sources for accuracy and credibility.
- Understand how an individual's place in the world is affected by social, economic, and political institutions.
- Gain a deeper appreciation of one's role and potential impact in social, economic, and political institutions.
- Demonstrate an understanding of the interaction among social, economic, and political structures and functions.
- Understand how individuals behave and interact with other indi-

General Education Program (GEP) Courses (36 credit hours required)

(Some majors require a specific course or a higher level course in some areas.
Consult your major requirements and advisor.)

Satisfactorily complete one course in each of the twelve numbered areas. 36 hours

A. Communication Foundation 9 hours	
1. ENC 1101	Composition I ^{1, 2} 3(3,0)
2. ENC 1102	Composition II PR: ENC 1101 ^{1, 2} 3(3,0)
3. SPC 1600C	Fundamentals of Oral Communication 3(3,0)
SPC 1016	Fundamentals of Technical Presentation 3(3,0)
COM 1000	Communication 3(3,0)
B. Cultural and Historical Foundation 9 hours	
1. EUH 2000	Western Civilization I ² 3(3,0)
EUH 2001	Western Civilization II ² 3(3,0)
HUM 2210	Humanistic Tradition I ² 3(3,0)
HUM 2230	Humanistic Tradition II ² 3(3,0)
AMH 2010	U.S. History: 1492-1877 ² 3(3,0)
AMH 2020	U.S. History: 1877-present ² 3(3,0)
WOH 2012	World Civilization I ² 3(3,0)
WOH 2022	World Civilization II ² 3(3,0)
2. ARH 2050	History of Western Art I 3(3,0)
ARH 2051	History of Western Art II 3(3,0)
MUL 2010	Enjoyment of Music 3(3,0)
THE 2000	Theatre Survey 3(3,0)
FIL 1000	Cinema Survey 3(3,0)
REL 2300	World Religions 3(3,0)
PHI 2010	Introduction to Philosophy 3(3,0)
LIT 2110	World Literature I PR: ENC 1102 ² 3(3,0)
LIT 2120	World Literature II PR: ENC 1102 ² 3(3,0)
3. Take one additional course from either B1 or B2.	
C. Mathematical Foundation 6 hours	
1. MAC 1105	College Algebra ² 3(3,0)
MGF 1106	Finite Mathematics ² 3(3,0)
2. CGS 1060C	Introduction to Computer Science ² 3(3,0)
STA 1060C	Basic Statistics using Microsoft Excel ² 3(3,0)
STA 2014C	Principles of Statistics ² 3(3,0)
D. Social Foundation 6 hours	
1. ECO 2013	Principles of Macroeconomics 3(3,0)
ECO 2023	Principles of Microeconomics 3(3,0)
POS 2041	American National Government 3(3,0)
2. PSY 2012	General Psychology 3(3,0)
SYG 2000	General Sociology 3(3,0)
ANT 2000	General Anthropology 3(3,0)
E. Science Foundation 6 hours	
1. AST 2002	Astronomy 3(3,0)
PSC 1121*	Physical Science PR: MAC 1105 or MGF 1106 3(3,0)
PHY 2053C	College Physics I: MAC 1105 and MAC 1114 4(3,3)
CHM 1020	Concepts in Chemistry PR: High School Algebra 3(3,0)
2. BSC 1005*	Biological Principles 3(3,0)
BSC 1050*	Biology and Environment 3(3,0)
GLY 1030	Geology & Its Applications 3(3,0)
GEO 1200*	Physical Geography 3(3,0)
ANT 2511	The Human Species 3(3,0)
MCB 1310	Intro to Biotechnology and Genetic Engineering 3(3,0)

*A one credit laboratory is also available for this course.

¹A grade of "C-" (1.75) or better is required in this course.

²A grade of "C-" (1.75) or better satisfies three hours of the Gordon Rule requirement.

Effective Date: Summer 2007

Substitution of Courses: General Education Program and Other Requirements

The Student Academic Support System (SASS) is coordinated by the Office of Academic Services for the evaluation of transfer courses for the University's General Education Program and Foreign Language Proficiency requirements. When the transfer course work is entered into the UCF computer system (usually during the first semester at UCF), course descriptions and other information to provide a sufficient basis for evaluation may be requested. Courses are evaluated on the basis of equivalency with the content of the courses required by the University. The evaluation conducted is entered into a computerized SASS Degree Audit system and then is available to the colleges and departments through the University's computer network and for the student online access through myUCF at <https://my.ucf.edu>. Appeals of transfer credit decisions should be directed to Academic Services (MH 210). Substitution requests for college or major requirements are processed within those administrative offices.

Alternate Courses: General Education Program

Courses that may be taken in substitution for the stated GEP requirements are listed below:

GEP Requirement	Acceptable Substitutions
MAC 1105 (College Algebra) ¹	MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313
MGF 1106 (Finite Mathematics)	MGF 1107
ECO 2013 (Macroeconomics) ECO 2023 (Microeconomics)	Any higher level ECO course which has ECO 2013 as a prerequisite
PHY 2053C (Physics)	PHY 2048, PHY 2049, PHY 2054C, PHY 2014C, PHY 5015C
CHM 1020 (Chemistry)	CHM 2045C, CHM 1032, CHS 1440, CHM 2040C & CHM 2041C
BSC 1005 or BSC 1050 (Biology) ¹	BSC 2010C
GEO 1200 (Geography)	GEO 2370
CGS 1060C (Intro to Computer) ¹	CGS 2100C, COP 2200, COP 2500C, COP 3502C, COT 3100C;
STA 2014C (Statistics)	STA 2023, STA 3032
THE 2000 (Theatre)	THE 2020
FIL 1000 (Cinema Survey)	FIL 2400, FIL 3401, FIL 3402
MUL 2010 (Enjoyment of Music) ¹	MUH 2017, MUH 2019, MUH 3212, MUL 2016, MUL 2720

¹For all of the acceptable substitutions in this GEP requirement, a grade of "C-" or better satisfies three hours of the Gordon Rule requirement.

Diversity Requirement

The University recognizes that communities are comprised of, and enriched by, people of diverse backgrounds. The study of diversity is encouraged to promote an understanding of the needs of individuals, the University, and society. Thus, all students completing their first bachelor's degree from UCF must complete at least one course that explores the diverse backgrounds and characteristics found among humans, including: race/ethnicity, gender, social class/caste, religion, age, sexual orientation, and level of physical ability.

Students are exempt from this requirement if they have completed an Associate of Arts degree or the General Education Program at a Florida public state university or community college. Students who have previously completed a baccalaureate degree also are exempt. The requirement is satisfied by the successful completion of a diversity course selected from the following list. Additional courses may be approved subsequently by the General Education Oversight Committee, so students should consult their departmental advisor for the most current listing.

viduals in their psychological, political, economic and social environments.

Science Foundation

- Demonstrate an understanding of science as an empirical attempt to acquire information about the real world, develop possible explanations of these phenomena, and test the explanations by predicting the outcome of future observations.
- Demonstrate an ability to assess the extent to which claims presented as "scientific" satisfy the empirical character of scientific explanations.
- Demonstrate understanding of scientific knowledge and problem solving in a physical or life science.

Undergraduate Degree Requirements

General Education Courses:

ENC 1102	Composition I
SPC 1600C	Fundamentals of Oral Communication
SYG 2000	General Sociology
ANT 2000	General Anthropology
POS 2041	American National Government
PSY 2012	General Psychology
WOH 2022	World Civilization II
LIT 2120	World Literature II

Other Courses:

AMH 3422	Frontier Florida
AMH 3425	Sunbelt Florida
AMH 3562	Women in American History II
AML 3283	Contemporary American Women's Fiction
AML 3615	Harlem, Haiti, and Havana
ANT 3245	Native American Religions
ASH 4304	Women China
CCJ 4463	Cultural Diversity in Criminal Justice
CCJ 4670	Women and Crime
CJE 4174	Comparative Justice Systems
COM 4014	Gender Issues in Communication
COM 4461	Intercultural Communication
CPO 3034	Politics of Developing Areas
EDG 2701	Teaching Diverse Populations
GEO 3471	World Political Geography
JST 3401	History of the Jewish People I
JST 3402	History of the Jewish People II
LIN 4643	Cross Cultural Communication
LIN 4XXX	African-American Styles of Communication
LIT 3682	Ethnic Literature in America
LIT 3192	Caribbean Literature
MMC 4300	International Media
MUL 2720	Music of the World
NUR 3805	Transitional Concepts in Nursing I
PAD 4446	Multiculturalism in Public Administration
PLA 4020	Law and Society
PLA 4830	World Legal Systems
PLA 4XXX	Employment Discrimination
POS 3627	Cultural Pluralism and Law
PUP 3325	Women and Politics
POS 4622	Politics and Civil Rights
PUP 3314	Minority Politics
SOW 3620	Social Work with Minorities
SPW 4772	Black Presence in Contemporary Latin America
SYD 3800	Sex Roles in Modern Society
SYP 4732	Minority Aging
THE 3230	Commonality within Cultural Diversity Experienced through Theater
WST 3561	Third Wave Feminism
WST 3015	Introduction to Women's Studies

Transfer work from other colleges and universities is evaluated by the student's major department to determine if courses meet the diversity requirement. Satisfaction of this requirement remains in effect if the student changes majors.

Exit Exams

In order to measure their effectiveness, some departments and colleges may require graduating students to participate in an exit exam designed to measure the students' understanding of the discipline.

Foreign Language Proficiency Requirement (Bachelor of Arts Degree)

Students graduating with a Bachelor of Arts degree must demonstrate proficiency in a foreign language equivalent to one year of college instruction. This requirement may be met either by successful completion of the appropriate college-level course or by examination. Languages that may be used include those taught at UCF and any others for which the University can obtain standardized proficiency tests. Students who have previously received a baccalaureate degree are exempt from this requirement.

Placement in Language Course

- Placement in foreign language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of one high school foreign language place the student in the first semester of the third year.
- Native speakers or students who have received advanced education abroad must substitute select classes.

Several departments, colleges, and schools have additional requirements. See "Special College and/or Departmental Requirements" within each listing.

1. This requirement is for proficiency and not a requirement for a particular number of hours of course work. For example, successful completion of only SPN 1121 (Elementary Spanish Language and Civilization II) would satisfy the B.A. requirement. Appropriate scores on Advanced Placement and CLEP examinations will also satisfy the requirement.
2. This is a University-wide requirement for all B.A. majors.
3. The Testing Administrator of the University Testing Center will offer the Foreign Language Proficiency Examination throughout each term. Students must register in advance with that office to take the examination (PH 106).
4. The foreign language proficiency requirement does not apply to students seeking a second baccalaureate degree.
5. A student who is required and furnishes a passing TOEFL (Test of English as a Foreign Language) score for admission to the University is considered to have satisfied the requirements.

American Sign Language

Students pursuing a Bachelor of Arts Degree may substitute American Sign Language for the foreign language exit requirement, except where one or more foreign languages have been specified by a college, school, or program for a specific degree (see individual degree program listings for more information). Proficiency is met either by successful completion of SPA 4614C or an appropriate score on the ASL proficiency exam. Contact the Department of Communication Sciences and Disorders regarding the proficiency examination.

SUS Foreign Language Admission Requirement

Students who have not satisfied the Foreign Language Admission Requirement (two high school units in the same language) at the time they are admitted to the University must satisfy this requirement prior to graduation. This requirement applies to all undergraduates and is separate from the UCF Foreign Language proficiency requirement.

The Gordon Rule

The "Gordon Rule" (State Rule 6A-10.30) applies to students who first enrolled in any college or university after October 1982. The rule requires students to complete four courses (twelve credit hours) of writing and to complete two courses (six credit hours) of mathematics at the level of college algebra or higher. Each course must be completed with a minimum grade of C- (1.75).

UCF courses that are required by the General Education Program also may be used to satisfy the Gordon Rule. "Gordon Rule" requirements may be satisfied by the General Education Program as follows:

Gordon Rule Requirement:	GEP Courses Which Satisfy:
1. Six hours of mathematics at the level of college algebra or higher	(1) College algebra or finite math (2) Statistics or computer science

Any 3000-level or above course in mathematics, statistics, or computer science also may be used toward fulfillment of the mathematics portion of the "Gordon Rule" Requirement.

2. Six hours of English coursework and six hours of additional coursework with significant college level writing	(1) Six hours of English Composition (2) Specifically identified courses and those from the following list:
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General Education courses that apply to the Gordon Rule Writing Requirement:

ENC 1101	Composition I
ENC 1102	Composition II
LIT 2110	World Literature I
LIT 2120	World Literature II
AMH 2010	U.S. History: 1492-1877
AMH 2020	U.S. History: 1877-Present
EUH 2000	Western Civilization I
EUH 2001	Western Civilization II
HUM 2210	Humanistic Tradition I
HUM 2230	Humanistic Tradition II
WOH 2012	World Civilization I
WOH 2022	World Civilization II
BSC 2010C	Biology I

Non-Gen Ed courses that also apply to the Gordon Rule Writing Requirement:

All Courses with an AML, ENC, ENG, ENL, and LIT prefix	
AMH 3402	History of the South to 1865
AMH 3403	History of the South Since 1865
AMH 3441	History of the Frontier: Eastern America
AMH 3442	History of the Frontier: Western America
AMH 3541	U. S. Military History To 1900
AMH 3561	Women in American History I
AMH 3571	Black American History I
AMH 3800	Canadian History
AMH 4110	Colonial America, 1607-1763
AMH 4130	The Age of the American Revolution, 1763-1789
AMH 4140	Jeffersonian America
AMH 4160	Jacksonian America
AMH 4170	Civil War and Reconstruction
AMH 4201	The Gilded Age and Progressivism
AMH 4231	United States History: 1914-1939
AMH 4270	United States History: 1939-1960
AMH 4311	American Culture I
AMH 4313	American Culture II
AMH 4510	Rise of the United States to World Power, 1776-1914
AML 3031	American Literature I
AML 3041	American Literature II
ANT 3163	Mesoamerican Archaeology
ARH 4450	20th Century Art
ARH 4800	Theory and Criticism of the Visual Arts
ASH 4404	China in 19th and 20th Centuries
ASH 4442	Modern Japan, 19th and 20th Centuries
BUL 3130	Legal and Ethical Environment of Business
DAN 3134	Dance History I
EAS 4700C	Aerospace Design I
EGN 4412C	Interdisciplinary Design I
EML 4501C	Engineering Design I
EUH 3122	Medieval Society and Civilization
EUH 3142	Renaissance and Reformation
EUH 3235	Romanticism and Realism
EUH 3242	Modern Europe and the First World War
EUH 3281	Second World War and Rebirth of Europe
EUH 3411	Ancient Rome
EUH 3451	History of Modern France
EUH 3651	War and Society
EUH 4284	Fascism and the Totalitarian Dictatorships
EUH 4465	Hitler's Third Reich
EUH 4500	English History to 1485
EUH 4501	English History: 1485-1815
EUH 4502	British History: 1815-Present
EUH 4571	History of Russia to 1801
EUH 4574	History of Russia: 1801-1917
EUH 4576	History of Russia in the 20th Century
EUH 4620	European Great Powers: 1815-1914
HIS 4150	History and Historians
HUM 3320	Contemporary Multicultural Studies
HUM 3394	Representations of Place and Space
HUM 3401	Asian Humanities
HUM 3431	Ancient Humanities
HUM 3460	Latin American Humanities
HUM 3553	Moses, Jesus and Muhammad
JOU 2100C	News Reporting
JOU 3101	Advanced Reporting
JOU 4181	Public Affairs Reporting
JOU 4300	Feature Writing
JOU 4306C	Critical Writing
JOU 4308	Freelance Writing
LAH 3130	Latin American History I
LAH 3200	Latin American History II
LAH 3400	History of Mexico and Central America
LAH 3470	History of the Caribbean
NUR 3165	Nursing Research
NUR 3805	Transitional Concepts in Nursing I
PAD 4034	The Administration of Public Policy
PAD 4720	Survey Research in Public Administration
PHH 3100	Ancient Philosophy
PHH 3200	Medieval Philosophy
PHH 3460	Modern Western Philosophy
PHH 3600	Contemporary Philosophy
PHH 3700	American Philosophy
PHI 3083	Research Methods in Philosophy
PHI 3320	Philosophy of Mind
PHI 3323	Minds and Machines: Philosophy of Cognitive Science
PHI 3451	Philosophy of Psychology

PHI 3670	Ethical Theory
PHI 3800	Aesthetics
PHI 3803	Philosophy and Creativity
PHI 3805	Contemporary Aesthetics
PHI 3941	Philosophy Practicum
PHI 4221	Philosophy of Language
PHI 4321	Philosophies of Embodiment: Mind/Body/Self
PHI 4341	Ways of Knowing
PHI 4804	Critical Theory
PHI 4931	Philosophy in the News
PHM 3401	Philosophy of Law
PHP 3781	African-American Philosophy
PHP 4782	Phenomenology
PLA 3155	Legal Writing
PLA 4935	Capstone: Legal Issues
REL 3131	Religion in America
REL 3432	Roots of Western Mysticism
RTV 4403	Electronic Media, Technology, and Society
SOW 4232	Social Welfare Policies and Issues
SOW 4341	Micro-Level Roles and Interventions in Social Work
THE 2304	Script Analysis
TPA 4940	Technical Theatre/Design Internship
TPP 3310C	Directing for Theatre I
TPP 4940L	Theatre Internship

College Level Academic Skills Test (CLAST)

The College Level Academic Skills Test (CLAST) is designed to ensure that students have achieved communication and computation skills commensurate with successful completion of the lower-division coursework. All students seeking an Associate of Arts or baccalaureate degree from a state of Florida institution are required by the state of Florida to satisfy the CLAST requirement. There are several methods by which students may meet this requirement. Students who have completed 18 or more credit hours are eligible to take the CLAST. Students must complete the CLAST requirement prior to the end of their sophomore year in college. An appeal to continue enrollment may be submitted to the CLAST Petition Committee (PH 106). CLAST is given 3 times per year (February, June, and October) as established by the Commissioner of Education. Additionally, students may retake the English Language Skills, Reading, and/or Mathematics subtests of CLAST on computer at the University Testing Center, PH 106. A fee will be charged for the computer-adapted CLAST (CAT-CLAST). Information regarding preparation for the CLAST may be obtained from the Student Academic Resource Center (PH 115) at 407-823-5130. Academic advising offices can answer questions students may have regarding the CLAST. **There are several methods by which students may meet this requirement, but applicants for teacher certification must check with the College of Education to determine if they are eligible for alternatives.** Additional information regarding the CLAST requirement may be obtained from the University Testing Center (PH 106) or online at <http://www.testing.sdes.ucf.edu>

Students with 60 or more credit hours who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of the CLAST may enroll in 36 credit hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been registered for and/or earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met.

Transfer Students with more than 60 credit hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first term at UCF. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been registered for and/or earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met.

CLAST Alternatives

Beginning January 1, 1996, the following alternatives have been approved to meet statewide requirements of the Florida CLAST. **Students who plan to major in a teacher education program must check with the College of Education to determine if they are eligible for alternatives.** Additional Information regarding alternative criteria for meeting the CLAST requirement may be obtained from the University Testing Center (PH 106) or online at <http://www.testing.sdes.ucf.edu>.

A student who earns a cumulative grade point average of 2.5 or above, on a 4.0 scale, in postsecondary-level in English and Mathematics coursework identified by the Postsecondary Education Planning

Undergraduate Degree Requirements

Commission, shall be exempt from the requirement for passing the CLAST subtest in question.

SAT Scores: A student who earns a quantitative score of 500 or above is exempt from the Math section of CLAST; any student who earns a verbal score of 500 or above is exempt from the English Language Skills, Reading, and Essay sections of CLAST.

ACT Scores: A student who earns a score of 21 or above on the Math section is exempt from the Math section of CLAST; any student who earns a score of 22 or above on the Reading section is exempt from the Reading section of CLAST; any student who earns a score of 21 or above on the English section is exempt from the English Language Skills and Essay sections of CLAST.

CLAST Waiver Petitions for Student with Disabilities

Students with disabilities may request reasonable accommodations while taking the CLAST. Those who are unable to pass a subtest of the CLAST due to disability can request that a subtest be waived. The student must be registered with the Student Disability Services Office (FC 132) and have on file documentation of his or her disability. Contact the Student Success Center (PH 216) to complete a petition to waive a CLAST subtest. The CLAST Waiver Committee reviews all requests for waivers on a case-by-case basis. For disability registration information, contact Student Disability Services at 407-823-2371. For CLAST Waiver petition information and forms, visit <http://www.ssc.sdes.ucf.edu>.

Summer Attendance Requirement

A student entering the State University System with fewer than 60 credit hours of credit is required to enroll in a minimum of nine hours of credit in the summer at a State of Florida university. Courses taken at the University during the summer for which the student receives a "W" or "F" may be counted toward this requirement. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. Petition forms for exemption are available from Academic Services (MH 210).

Admission to the Upper Division

To be classified as an upper division student at the University of Central Florida, a student must complete the following:

1. A minimum of 60 credit hours of academic work;
2. The English and mathematics requirements of the Gordon Rule;
3. Passing scores on three of the four parts of the CLAST; and,
4. One year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

Graduation Application Deadline

Students planning to graduate in the next term must complete the "Intent to Graduate Form" in their college (see the "Academic Calendar" for specific dates). Students who have not applied for graduation by the last day of classes in the term preceding the graduation term may not be listed in the *Commencement Program*. 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 or refer to <http://graduation.ucf.edu>.

Successful completion of the degree requirements stated in the *Undergraduate Catalog* under which the student plans to graduate shall constitute a recommendation of the respective college faculty that the degree be awarded, assuming the student is in good standing at the University. A student must complete all requirements for a baccalaureate or graduate degree no later than the date of the Commencement. A student **may not be** enrolled as a transient student in another institution during the term in which the baccalaureate degree or the Associate of Arts degree is to be awarded.

Grad On Track (GOT)

First Year Advisor: Stephen O'Connell; PH 116; 407-823-3789;
E-mail: got@mail.ucf.edu
<http://gradontrack.sdes.ucf.edu>

The Grad On Track (GOT) program assures a student's graduation in four years. GOT students agree to a pre-determined four-year program of study; in return, the University guarantees access to the classes needed to graduate in that program of study. The program is designed for students who will attend the University full-time for four years, and whose eligible major is determined from the point of admission to the program. For more information, visit the Grad On Track website at <http://gradontrack.sdes.ucf.edu>.

Correspondence Courses

The University of Florida's Division of Continuing Education, Department of Independent Study by Correspondence administers all correspondence instruction for the State University System of Florida (SUS). College credit, high school credit, and continuing professional education courses are available through regular mail and Fax (several by e-mail). Independent Study offers more than 150 courses to students who would like a flexible schedule or an opportunity to take extra classes. It is possible to enroll any time during the year.

In 1996, the State revised the General Provisions Rule 64-4.002, at the Bureau of Teacher Certification for the State of Florida. Any teacher in the state now can use credit correspondence courses, as appropriate, to apply toward the recertification of the teaching license. Moreover, there is no limit to the number of courses that may fulfill the requirements.

The current catalog details enrollment procedures, fees, and course information. A copy may be obtained at no cost by calling or writing to: University of Florida, Independent Study, Suite D, 2209 NW 13th St., Gainesville, FL 32609; 352-392-1711, Ext 200; E-mail: learn@nervm.nerdc.ufl.edu. Website: <http://www.doce.ufl.edu>.

Double Majors

Students working toward a single bachelor's degree (B.A. or a B.S. degree) may concurrently satisfy the requirements for two majors under the same catalog year and will be awarded **one** diploma with both majors indicated on the transcript. Since the requirements for Bachelor of Arts and Bachelor of Science degrees are different, a student completing a major with a B.A. **and** a major with a B.S. must satisfy the requirements for **both** the B.A. and the B.S. degrees and must use the same catalog year for both majors. Students **may not** pursue a BA/BS double major in the same major. Although both majors will be indicated on the transcript, only **one** diploma (B.A. or a B.S., at the student's option) will be awarded. A double major does not require a minimum number of hours beyond those necessary for completing degree requirements (120 or more hours), while a second baccalaureate degree has specific minimum requirements.

Double Degrees/Second Baccalaureate Degree

Any UCF student desiring to obtain two or more baccalaureate degrees must meet the requirements for each degree and earn a minimum of 150 credit hours. A separate diploma will be awarded for each degree.

Transfer graduates from regionally accredited four-year U.S. institutions who apply for admission to work toward a second baccalaureate degree at UCF must meet the regular admission requirements of the major department and the UCF residency requirement for that degree. Students holding the baccalaureate degree from regionally accredited U.S. institutions are considered to have completed CLAST, Gordon Rule, foreign languages, and General Education Program requirements. Students who hold degrees from non-regionally accredited U.S. institutions and foreign institutions may be required by the Office of Academic Services (MH 210) to fulfill all or part of the UCF General Education Program requirements.

The University requirements specified in the preceding paragraphs are minimum requirements. Departments and colleges may require more than 150 credit hours for a second degree or more than 30 credit hours to be taken in residence at UCF. Students should confirm department, school, and college requirements with their academic advisors.

Catalog Year Requirements for Double Degrees and Double Majors

Students earning two degrees may use different catalog years for each degree. Students earning a double major must use the same catalog year for both majors.

Dual Usage of Credit Hours

Courses used to meet the requirements of an undergraduate degree typically cannot also be used to meet the requirements of a graduate program. At the discretion of the program and college, graduate programs are permitted to accept up to nine hours of graduate course work taken at UCF while an undergraduate student as part of an undergraduate program of study. Departments can provide information regarding the 3+2 degree programs and the Senior Scholars program. See the *Graduate Catalog* for further information.

ACADEMIC REGULATIONS AND PROCEDURES

Registration Policies

During each academic term, registration is held for all new, currently enrolled, degree-seeking and non-degree seeking students for the following term. Registration sessions consist of Registration and Late Registration (held during the first week of classes for each term/session). Spring Registration begins following midterm for the Fall Semester. Summer and Fall Registrations begin following the midterm of the Spring semester. Class listings are available only online through the Class Schedule and Course Catalog Search at <https://my.ucf.edu>.

Registration is available over the web using the myUCF system at <https://my.ucf.edu> and in the college advising offices. The dates and times for each registration period are included in the "Academic Calendar" online at <http://www.registrar.sdes.ucf.edu/calendar/academic/>.

Web Enrollment Guide

The *Web Enrollment Guide* is published online each year. 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 web page at <http://registrar.ucf.edu>.

Terms and Credit Hours

The University of Central Florida academic schedule consists of two semesters (Fall and Spring), and the Summer term. The graduation credit value of each course of instruction is stated in terms of credit hours. A semester hour of credit or credit hour represents one class hour of work (or two or more laboratory hours of work) per week for a semester. Classes may be offered for a six-week or nine-week session during the Summer term. During this shortened term, two class hours of work (or four or more laboratory hours of work) per week are required to represent a semester hour of credit.

Undergraduate Enrollment Status	Credit Hours
Full Time	12 or more
Three Quarter Time	9-11
Half Time	6-8
Less Than Half Time	less than 6

Note: Graduate and post-baccalaureate students please refer to the *Graduate Catalog* for enrollment status policies.

Credit Hour Limits

Undergraduate students are limited to 14 credit hours for the Summer term and to 17 credit hours for the Fall and Spring terms. The department chair and college advising office must approve overloads. Overloads may be processed at the college advising offices.

Excess Hours

All students should make every effort to enroll in and complete only once those courses that are required for their major. Although educationally beneficial, selected courses, minors, (unless required for a specific major) and additional majors or degrees may require students to take excess hours. Excess hours may require students to pay an additional surcharge/fees or negatively impact eligibility for certain financial aid programs. Students should regularly review their degree audits and consult with an academic advisor to make sure they are not enrolling in excess courses.

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 <https://my.ucf.edu> under the Student Self Service link. To obtain an immediate release for financial holds, payment to the Cashier's Office must be made either in cash, credit card, cashier's check, or money order.

Add/Drop Policy

Add/Drop is the period following their initial registration when students may make class schedule adjustments (as listed in the "Academic Calendar"). Add/Drop may be done using the myUCF system (<https://my.ucf.edu>) and in the college advising offices. After the Add/Drop period, no course may be added. Courses meeting for the first time after the end of Add/Drop may be dropped the next business day in the Registrar's Office, MH 161. If a student drops courses for an entire semester with the intent of not returning to UCF, they must also drop courses for any future semesters. For withdrawal after the Add/Drop period, refer to the "Withdrawal

Policy" of this *Undergraduate Catalog*.

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 the "Fee Schedule" in the "Financial Information" section of this *Undergraduate Catalog*. Audit registration is on a space-available basis at the prescribed 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 website (<http://www.registrar.ucf.edu>) 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," the "Senior Citizen Audit Application" and "Senior Citizen Audit Registration Form" These forms are available in the Registrar's Office (MH 161) or at the Registrar's web site: <http://www.registrar.ucf.edu>. It is necessary to complete the required forms during the last hours of registration as noted in the "Academic Calendar" online at <http://www.registrar.ucf.edu/calendar>. Direct student expenses after the completion of registration include the campus ID card, vehicle registration and textbooks.

State of Florida & UCF Employee Registration

State of Florida & 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," online at <http://www.registrar.ucf.edu/calendar>. For waiver eligibility and application information, see "Tuition Waivers" within the "Financial Information" chapter of this *Undergraduate Catalog*.

State Tuition Exemption Program (STEP) (National Guard) Registration

State Tuition Exemption Program (STEP-National Guard) students register on a space-available basis only. Registration is on a space-available basis during the last hours of registration as noted in the "Academic Calendar" online at <http://www.registrar.ucf.edu/calendar>. STEP students must present a "Certification" letter to the Student Accounts Office (MH 107) to receive waiver of eligible fees.

Registration before the time specified in the "Academic Calendar" online at <http://www.registrar.ucf.edu/calendar> will result in the student being assessed regular fees. The tuition fee waiver cannot be used for courses that require increased costs, including, but not limited to courses offered through the Center for Continuing Education, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, co-ops, practicums, or applied, individualized instruction in music, art, or dance. Eligible members of the active Florida National Guard may receive a waiver of 50% of tuition and material and supply fees.

State University System (SUS) Florida Transient Students

An SUS Transient Student is a student in good standing who is seeking a degree from one of the other Florida public universities (SUS) and desires to take courses with UCF. Students must complete the "SUS Transient Application Form" which is available at all SUS institutions and at <http://www.facts.org>. No application fee is required. The "SUS Transient Application Form" must be completed each term and should be mailed or delivered to the Registrar's Office (MH 161), by the application deadline noted in the "Academic Calendar" online at <http://www.registrar.ucf.edu/calendar>. Students should visit the Registrar's Office website at <http://www.registrar.ucf.edu> or contact the Registrar's Office for registration information at 407-823-3100.

UCF Students Attending Another State University System of Florida Institution

UCF students who desire to attend another SUS institution as a Transient Student may secure the "SUS Transient Application Form" from their college advising office, from the Registrar's Office or

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online at <http://www.facts.org>. The prior permission of the department, school, and college advising office is required to ensure that the courses attempted at another institution will transfer and meet the UCF Degree/General Education Program requirements.

UCF Students Attending a Non-SUS Institution

A UCF degree-seeking student desiring to earn credit at another college or university for transfer back into a UCF degree program must obtain prior transient approval for specific courses from the Dean or Department Chair of his/her respective college or school. Transient approval of courses to be applied to the UCF General Education Program must be obtained in advance from Academic Services (MH 210). Credit earned without prior transient approval may not be accepted. Plus/minus grades will be transferred for course work earned Fall 2001 and after using UCF's grade point system. Because of graduation certification, students may not take courses in transient status during the term in which they expect to graduate. Student seeking transient status must complete the "Transient Approval Form," available from the college or school advising office or at <http://www.facts.org> and must submit the completed, approved and signed form to the Registrar's Office (MH 161). Transient credit cannot be used to reduce the last 30 semester hour residency requirement for a baccalaureate degree, the last 20 semester hour residency requirement for an Associate of Arts degree, or any departmental residency requirements.

Enrollment and Degree Certifications

Students may obtain their enrollment verification online through myUCF at <https://my.ucf.edu>. **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 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.

Withdrawal Policy

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" online at <http://www.registrar.ucf.edu/calendar>. A student may withdraw from courses using myUCF at <https://my.ucf.edu>, or by visiting the Registrar's Office (MH 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 his or her signature. Students also mail a written request to the Registrar's Office, P.O. Box 160114, Orlando, FL 32816-0114. This letter must be time-stamped or post-marked before the published withdrawal deadline and must include the student's identification number, the course(s) to be dropped and his or her 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. If a student withdraws from courses for an entire semester with the intent of not returning to UCF, they must also drop courses for any future semesters.

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.

No withdrawal is permitted after the deadline except in extraordinary circumstances such as serious medical problems. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Students seeking to petition for a late withdrawal should consult Academic Services (MH 210). At the time of the request, Academic Services 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. Medical and late withdrawals normally are for all courses taken in the semester.

Students who seek late withdrawal because they are ill must apply

for the withdrawal within six months of the term from which the withdrawal is sought. Students seeking a late withdrawal because of medical conditions must follow the medical withdrawal procedure. The student's physician provides the University with the appropriate medical information, using the forms available in the Office of Academic Services. A medical withdrawal must be for all classes in the term.

If a medical withdrawal is approved, a "WM" will be recorded for each course. Students who receive a medical withdrawal may be placed on hold until the University can determine that the student is ready to return. If a medical withdrawal is approved, it is expected that the student not enroll at the University in the immediately subsequent semester, but will use that time to address the medical condition that necessitated the withdrawal. If a medical withdrawal is not approved, the request may be approved as a late withdrawal and grades of "WP" or "WF" will be recorded. A grade of "WF" will affect the calculation of the student's grade point average.

Following the close of Late Registration and Add/Drop each term, students withdrawing from courses will incur both grade and fee liability. Students with circumstances determined by the University to be exceptional and beyond their control may apply for a cancellation of enrollment and an elimination of fee liability. Exceptional circumstances include, but are not limited to sickness, death, involuntary call to military service, or administrative errors created by the University. Students must submit a petition and all supporting documentation for a Late Drop of courses to Academic Services (MH 210; 407-823-2691) within six months of the end of the term for which the Late Drop is sought.

If a 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.

Withdrawal and Academic Behavior Violations

Should an alleged violation of academic behavior standards arise before the withdrawal deadline in a term, the instructor shall notify the unit head who will notify the University Registrar that the student shall not be withdrawn from the course in question. Only a written release from the instructor of the authorized party deciding a student appeal will permit withdrawal. However, if the student appeals the academic action and desires to withdraw from the course, the process shall be initiated by the student immediately in the normal University manner. Such withdrawal requests will be held in abeyance until a ruling on an appeal is obtained. If resolved in favor of the student, the withdrawal request will be processed at the time. The individual empowered to rule on the student appeal shall appropriately notify both the University Registrar and the Director of the OSRR or designee of the outcome. For additional information regarding Academic Behavior Violations, see the current *Golden Rule* (<http://www.goldenrule.sdes.ucf.edu>).

Grade System

The University uses an alphabetic system to identify student grades and other actions regarding student progress or class attendance. Beginning Fall 2001, a plus/minus grading system became effective, with a grade point equivalent per semester hour 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 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-.

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

The Grade Point Average (GPA) is the average number of grade points per semester hour attempted. **GPA is computed by dividing the total number of grade points assigned by the total number of credit hours attempted, less hours resulting from NC, W, WP, and I grades.** The GPA for graduation requirement is a minimum UCF 2.0 ("C").

Example: A student has completed 13 credit hours for a given term. To calculate the Term GPA:

1) Multiply the number of credit hours per course by the number of grade points per grade. Then add each amount to arrive at the total number of grade points earned for that term:

Course #1	B+	3 credit hours X 3.25 grade points	=	9.75
+ Course #2	A-	3 credit hours X 3.75 grade points	=	11.25
+ Course #3	A	4 credit hours X 4.00 grade points	=	16
+ Course #4	B	3 credit hours X 3.00 grade points	=	9
		=	13 credit hours	= 46 total grade points

2) Divide the total number of grade points by the total number of credit hours earned that term:
46.00 total grade points / 13 credit hours = 3.54 GPA for that term.

UCF Cumulative GPA. If prior to this term the student had earned a total of 162 grade points for a combined 54 term hours of coursework, his or her cumulative grade point average entering this term would be $162/54 = 3.00$. Including this term of coursework, the cumulative grade point average would be $(162 + 46) / (54 + 13) = 3.10$.

The designation of "N" will be assigned temporarily by the Registrar's Office only in the case when a grade has not been submitted by the faculty by the grade submission deadline. The designator will be replaced by the earned letter grade at the earliest opportunity in the term that immediately follows and prior to graduation. The "N" designator may not be assigned by the instructor.

Incomplete Grade

A grade of "I" (Incomplete) may be assigned by the instructor when a student is unable to complete a course due to extenuating circumstances, and when all requirements can be completed in a short time following the end of the term. The student is responsible to arrange with the instructor for the completion of the requirements of the course. Effective with incomplete grades assigned in the Fall semester 1997 and thereafter, a student **cannot** graduate from the University with an "I" on the transcript. The incomplete must be changed within one year of the last day of the semester attempted or prior to graduation from the University, whichever comes first. Unresolved incomplete grades automatically will be changed to "F" by the Registrar's Office. Unresolved "I" grades in courses graded with "S" or "U" will be converted to "U."

Grade Change

A grade change is the change of any originally assigned grade to another grade, including grades of "I" and grades earned by administrative withdrawals. 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. A grade will not be changed after a degree has been conferred. The Registrar will change a student's academic status if necessitated by a change of grade, except in cases of

academic suspension. If a student is suspended, the Admissions and Standards Committee may review the suspension and readmit the student if the Committee decides readmission is warranted.

Grade Reports

Grades are available from myUCF at <https://my.ucf.edu> or from the UCF kiosks where a hard copy of grades per term may be printed via the "Print" browser function.

Attendance, Absences, or Unsatisfactory Work

Under University policy, students are not authorized to attend class unless they are on the class roll, or have been approved to audit and have paid audit fees. Students are responsible for satisfying the entire range of academic objectives as defined by the course instructor and ensuring that their class work and attendance are satisfactory. Students should understand that attendance policies and procedures vary among instructors and academic units, and they must observe any special attendance regulations stipulated by their college, school, department, program, or instructor. Reasons for acceptable absences may include illness, serious family emergencies, special curricular requirements (e.g., judging trips, field trips, professional conferences), military obligations, severe weather conditions, and religious holidays.

Students also should be excused for participation in official University-sponsored activities, such as music performances, athletic competition, or debate. Students chosen for such events, including intercollegiate athletics, band, choir, and academically related programs, shall be listed on a "Program Verification" form. Program Directors shall provide each student with a copy of this form. It is the student's responsibility to present a copy of this form to the faculty member(s) responsible for the class from which the student will be absent. This verification is to be provided prior to the class period when possible and no later than the first class following the event. A copy of the form listing students selected to represent the University and signed by the Program Director shall be filed with the Office of Student Rights and Responsibilities (FC 155). If further verification is needed, contact the Office of Student Rights and Responsibilities (FC 155; 407-823-6960) or, for athletic events only, Academic Services for Student-Athletes, Saber Center 123B; 407-823-3761.

Absences from classes for court-imposed legal obligations (e.g., jury duty and subpoenas) must be excused. The student may offer other sound reasons. When absences threaten a student's satisfactory completion of a course, the instructor may report the absence to the appropriate Dean of the student's college/school and may choose to call upon the college/school office to request additional information and insight into the significance of or reason for the absences.

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 (FC 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. Detailed conduct regulations and procedures are presented in *The Golden Rule*.

A person applying for admission to UCF who has declared a violation of conduct policies at a previous college or university or has been charged with a violation of the law (including traffic violations that resulted in a fine of \$200 or more) may have circumstances of the case reviewed by the Office of Student Conduct (FC 154) to consider eligibility for admission.

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.

Academic Regulations and Procedures

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 in accordance with the Student Grievance Procedure, as listed in *The Golden Rule*.

Student Classifications

Students will be classified by level, on the basis of credit hours satisfactorily earned as follows:

Freshman: 0-29 credit hours.

Sophomore: 30-59 credit hours.

Junior: 60-89 credit hours.

Senior: 90 or more credit hours, prior to completion of baccalaureate requirements.

Post-Baccalaureate:

Any student enrolled in courses, regardless of course level (except one working toward another baccalaureate degree), who has a baccalaureate degree but has not been admitted to a graduate program. All post-baccalaureate students are considered as non-degree undergraduates for all University policies and procedures.

Graduate:

Any student enrolled in graduate courses who has been admitted to a graduate program.

Other Student Classifications:

Auditor:

A student registered for any credit course who is not seeking credit.

Co-op Student:

A student enrolled in the Center for Cooperative Education and Applied Learning Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op academic calendar: a co-op student either is on assignment or attending class during each term.

Special Student:

A student of demonstrated academic ability who does not meet the regular requirements for admission (Early Admission, non degree-seeking, transient, and auditor)

Temporary:

A student who applied before the deadline and who is permitted to register and attend class pending completion of the admission file

Transient:

Students temporarily registered (for one semester) at UCF with the approval of another university or college where they are regularly enrolled, or a UCF student temporarily in attendance at another university or college, with the approval of UCF. A UCF student may not be enrolled as a transient student in another institution during the term in which the baccalaureate degree or the A.A. degree is to be awarded.

Limited Non-Degree Seeking:

A student earning credit, but not working on a degree program.

Provisional:

A student entering from a regionally unaccredited high school, college, or university may be admitted on provisional status where appropriate. By obtaining a minimum 2.0 GPA ("C" average) at the end of the first term of attendance, the provisional status will be removed. Earning less than a "C" (2.0) average the first term would result in disqualification.

Academic Honors

President's Honor Roll Certificate (Full-Time Award)

The President's Honor Roll Certificate (Full-Time Award) is awarded in recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA, complete 12 or more hours, excluding satisfactory/unsatisfactory course work, and did not earn any "I," "U," "N," "NC" or "WF" grades during a given term.

President's Honor Roll Certificate (Part-Time Award)

The President's Honor Roll Certificate (Part-Time Award) is awarded in

recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA in two consecutive part-time terms. The student must complete at least 15 hours, with no more than 11 in each consecutive term, excluding satisfactory/unsatisfactory course work, and not earn any "I," "U," "N," "NC" or "WF" grades during a term. Hours utilized in the awarding of a President's Honor Roll Certificate may not be utilized in the determination of a subsequent certificate.

Dean's List

The Dean's List is compiled in recognition of scholastic honors to degree-seeking undergraduate students who earn a minimum 3.4 GPA, complete a minimum of 12 credit hours, earn no grade less than "C" (2.0) and no "I," "U," "N," "NC" or "WF" grades during a term.

Baccalaureate Honors and Diplomas

The University shall confer baccalaureate honors recognition on those students who have completed a minimum of 48 credit hours at UCF and who:

1. Attain an overall grade point average (this includes transfer credit) that is in the upper 10 percent of the range established by all students graduating in the same college/school during the previous two years;
2. Attain at least a 3.20 overall grade point average;
3. Honors awarded will be:

Summa Cum Laude for those students in the upper 2.5 percent;

Magna Cum Laude for those students in the upper five percent, but not in the upper 2.5 percent;

Cum Laude for those students in the upper 10 percent, but not in the upper five percent.

Records for the term of graduation are incomplete at the time the *Commencement Program* is printed. Identification of these students at graduation therefore is presumptive of honors and not conclusive, since final term grades may result in changes in relative rankings.

Consult the Academic Honors list at

<http://www.iroffice.ucf.edu/character/honorscutpoints.html> for the most up-to-date UCF Honors minimum GPA requirements.

Diplomas are mailed 4 to 6 weeks after Commencement to the address indicated in the "Intent to Graduate" form.

Honors in the Major

Please see "Honors in the Major" in the The Burnett Honors College portion of this *Undergraduate Catalog*.

Grade Forgiveness

Grade Forgiveness offers a student the opportunity to retake a course and earn a higher grade that will be substituted for the previous lower grade and thus raise the GPA. "Grade Forgiveness Request Forms" are available in the Registrar's Office (MH 161) or on the Registrar's website, <http://www.registrar.ucf.edu>. Requests must be submitted no later than the **last day of Late Registration and Add/Drop** for the term/session in which the student has registered for the course being repeated. The following policies apply:

1. Grade Forgiveness is limited to **two** courses;
2. Grade Forgiveness **may not** be used twice for the same course;
3. Grade Forgiveness will only be awarded if the original and repeated courses both are taken at UCF;
4. All grades will remain on the student's official transcript. The original course grade will be marked with a "T" to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an "R." The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;
5. If it is determined that the student is ineligible for the Grade Forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made;
6. If a student applies for Grade Forgiveness and later withdraws, or receives an "I" grade or "NC" grade in the course, the attempt **will** count as one of the allotted Grade Forgiveness attempts, and the GPA will calculate both grades.
7. UCF **does not** honor Grade Forgiveness granted at other institutions unless it is part of an Associate in Arts or a specific statewide articulated Associate in Science degree transferred

from a Florida Public Community College or State University. Grade forgiveness awarded within a bachelor's degree from a Florida State System institution is not honored at UCF. UCF's Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations;

8. Due to the two-course limit, a student who has repeated two or more courses at a Florida Public Community College or State University and included those courses in the transfer of an AA or a specific statewide articulated AS degree **will not** be granted any Grade Forgiveness at UCF;
9. Grade Forgiveness awarded for repeated courses will not retroactively alter any previous academic action (i.e. academic probation or disqualification). In addition, no academic records can be altered after a student graduates;
10. Grade Forgiveness is not retroactive and, therefore, may not be used for a course repeated before Fall 1981. If a student who repeated a course at UCF before 1981 and did not use the previous forgiveness policy may repeat the course again. In this case, the lower of the previous two grades will be forgiven. This special circumstance is the only one in which a student will be allowed to repeat a course more than once; and,
11. With prior approval from the Dean's office in which the course is offered, a student can only substitute a course different from the original one if: 1) the substitute course reflects a change in prefix, number, hours, or title but not in substance; or 2) the substitute course replaces a course no longer offered by UCF.

Repeated Enrollment in Same Course: Beginning Fall 1997, a student enrolled in the same undergraduate college credit course more than twice shall pay matriculation at 100% of the full cost of instruction (Non-Florida Resident rates).

Academic Standing

All academic actions are shown on myUCF at <https://my.ucf.edu> and on the transcript. The action is generated due to course completion. Changing a course grade does not necessarily change academic action. An exception can be made when an error is committed and is so stated by the instructor on the "Change of Grade Request Form."

Good Standing

Good standing indicates only that the student is meeting the minimum academic standard for retention by the University (minimum term GPA, 2.0). To meet graduation requirements, however, the student must have a minimum UCF GPA of 2.0.

Academic Probation

Action taken when a student's UCF cumulative GPA drops below 2.0. Academic Probation will continue until the current term and UCF cumulative GPA reach 2.0 or better.

First-time-in-college students may be admitted on Academic Probation at the discretion of the Undergraduate Admissions Office or the Admissions and Standards Committee. Transfer students may be admitted on Academic Probation at the discretion of the Undergraduate Admissions Office or the Admissions and Standards Committee. Academic Probation is intended to inform students making unsatisfactory progress of their need to alter study habits and seek additional counseling. Early recognition will indicate to the student the possible jeopardy to academic goals and will also allow an opportunity to demonstrate acceptable performance.

Disqualified (First Suspension)

A student on Academic Probation is disqualified upon failure to achieve a minimum 2.0 GPA during the subsequent term. A student who is disqualified **may not** enroll at the University for two semesters following disqualification. Readmission after two semesters is **not** automatic. Disqualified students are normally expected to complete the Florida AA degree before petitioning for readmission. A disqualified student must submit an application for readmission supported by a letter documenting the reasons for previous academic difficulties, clear evidence of satisfactory academic performance since leaving the university and plans for achieving a GPA of 2.0 or better. The total record will be reviewed and action on readmission will be taken by the University Registrar. **Any Disqualified student whose UCF grade point deficiency is equal to or greater than 15 grade points is not eligible for readmission.** For readmission purposes only, "grade point deficiency" is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to

raise his or her UCF grade point average to 2.0.

Exclusion (Second Suspension or more)

A student readmitted following disqualification who fails to achieve a minimum 2.0 GPA is excluded from the University. Exclusion is most serious and **students are not eligible for readmission after Exclusion** (unless in the opinion of the Admissions and Standards Committee there are documented extenuating circumstances).

Earning Credit While Disqualified or Excluded

A student disqualified or excluded while a freshman or sophomore who subsequently receive an A.A. degree with a minimum "C" average (2.0 GPA) on all college work attempted from a Florida public community college has the right to appeal for readmission, in accordance with standard University policies. However, readmission is not guaranteed, and the student seeking readmission will be required to follow all academic regulations and procedures associated with readmission after suspension.

Readmission

A student must apply for readmission to the Registrar's Office (MH 161) if:

- 1) the student has not enrolled at UCF for two consecutive semesters (not including the Summer term);
- 2) the student has been academically suspended from UCF;
- 3) the student failed to enroll or withdrew from all classes during the readmitted term; or,
- 4) the student has previously attended, or is currently enrolled at UCF, as "degree-seeking" and desires to pursue a second bachelor's degree.

The application deadline for readmission is as follows: for Summer, **April 15**; for Fall, **July 15**; and for Spring, **November 15**.

Readmission Following Non-Enrollment for Two Consecutive Semesters

The student must complete and submit the "Readmission Application Form," available at the Registrar's Office or on the web at <http://registrar.ucf.edu>. If the student has attended another regionally accredited institution since leaving UCF, the student must request an official transcript be sent to the Registrar's Office. If the student was previously admitted to a UCF limited-access program, the student will be placed in pending status for that major and must apply to the college for readmission to the program. Plus or minus grades will transfer for course work earned Fall 2001 and after using UCF's grade point system.

Readmitting students classified as a "Florida resident" during the last term at UCF who have resided outside of the State of Florida for one year may not be eligible for readmission as a Florida resident for tuition purposes. Students approved for readmission may be classified as a non-resident for tuition purposes and must submit documentation to the Registrar's Office establishing his or her eligibility for Florida residency for tuition purposes. For eligibility requirements, refer to 'Florida Residency for Tuition Purposes' within the "Financial Information" chapter of this *Undergraduate Catalog*.

Any readmitted student whose UCF GPA is less than 2.0 at the time of the last enrollment at the University will be readmitted on "Academic Probation."

All applicants seeking readmission who have attempted course work at another regionally accredited institution since last attending the University will be required to be in "Good Standing" (minimum 2.0 GPA) at the last institution attended with no allowance for grade forgiveness and must be eligible to return to the last institution attended.

Readmission Following Suspension: Disqualification, with a Grade Point Deficiency of Less than 15 Grade Points

A student who has been academically disqualified by UCF (with a grade point deficiency less than 15 grade points) who has completed the two semester academic suspension period may petition for readmission by submitting the "Readmission Application Form" to the Registrar's Office. For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF

Academic Regulations and Procedures

grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission. The petitioning student must satisfy the following requirements before a decision will be made:

1. Submit a written statement indicating the reason for the previous academic difficulties and a plan for ensuring success in future terms:
 - a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification Number (PID).
 - b. A "Readmission Application Form" not accompanied by the required written statement **will not** be reviewed;
2. Contact the major's department/school/college to establish a plan to complete the program of study. The student **must** obtain the department/school/ college's favorable recommendation of this plan in writing; and,
3. Submit to the Registrar's Office official transcripts from all other schools attended during suspension (if applicable).

The Registrar's Office will review the readmission application **only** when it receives all of the documents listed above. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details. Disqualified students are limited to **one** readmission appeal during the disqualification period.

Readmission Prior to Completion of the Required Suspension

A student who has been academically disqualified by UCF who has not completed the academic suspension period **is not eligible for readmission to the University**. Students may appeal for an exception to this policy to the Admissions and Standards Committee. See 'Right of Appeal' below for details. Disqualified students are limited to **one** readmission appeal during the disqualification period and **one** appeal per 12-month period following the disqualification period.

Readmission Following Suspension: Disqualification (with a Grade Point Deficiency of 15 or more Grade Points) or Exclusion

Students who are disqualified (with a grade point deficiency of 15 grade points or more) or who have been excluded **are not eligible for readmission to the University**. The Registrar's Office will deny readmission to ineligible students. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details. For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

Dropping or Withdrawing During Readmitted Term

Disqualified or excluded students who drop or withdraw from all courses during the readmitted semester for whatever reason **must** apply for readmission.

Limitations on the Number of Readmission Appeals

Disqualified students are limited to **one** appeal for an exception to University policy to the Admissions and Standards Committee during the disqualification period and **one** appeal per 12-month period following the disqualification period.

Excluded students are limited to **one** appeal for an exception to University policy to the Admissions and Standards Committee **per 12-month period**.

Non-Academic Admission Clearances

According to the Florida Board of Regents Rule 6C-6.001(2) "...If determined not to be in the best interest of the University to admit an applicant because of past misconduct the University may do so." This authorizes universities to refuse readmission to applicants due to past misconduct. The University further requires the Vice President of Student Development and Enrollment Services or his/her designee to review all applications disclosing information

regarding any prior criminal conviction or conduct problem at another institution and to make a decision as to whether the admission of this applicant will be in the best interest of the University. This statement describes the procedure and assigns responsibility for the review of these applications for admission. Applicants who fail to disclose any prior criminal conviction or conduct problem at another institution and such fact is subsequently discovered by the University shall be denied admission or readmission, or other academic and/or disciplinary action up to and including expulsion.

Appeal

There is no appeal of the University's decision not to admit or readmit a student based on past misconduct. According to the Florida Administrative Code 6C-6.001(4): "Applicants denied admission shall be given notice of the denial within a reasonable period of time following the decision. Upon the applicant's written request, the University shall provide the reasons for the rejection in writing."

Admissions and Standards Committee

The Admissions and Standards Committee is a reporting committee of the Faculty Senate. Its membership includes faculty and non-faculty representatives of the Faculty Senate, several academic colleges, the Division of Student Development and Enrollment Services, and Student Government Association. The Admissions and Standards Committee meets regularly to consider appeals from: 1) persons denied admission; 2) students denied readmission; 3) students requesting to continue in school, but who have failed to meet CLAST requirements; and 4) student appeals of University academic actions, policies or standards.

Right of Appeal

A student who is ineligible for readmission or has been denied readmission may appeal for an exception to University policy to the Admissions and Standards Committee. The appealing student must satisfy the following requirements before the Registrar's Office will forward the appeal to the Committee:

1. Complete the "Application for Readmission as an Exception to University Policy Form," available at the Registrar's Office (MH 161);
2. Prepare a written statement specifying the extenuating circumstances that led to their poor academic performance or academic dismissal.
 - a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification number (PID).
 - b. A "Application for Readmission as an Exception to University Policy" form not accompanied by the required written statement **will not** be forwarded to the Admissions and Standards Committee;
3. Provide documents which support and/or verify the extenuating circumstances (if applicable);
4. Supply official transcripts from all other schools attended during the suspension (if applicable).
5. Order **one** official copy of the UCF official transcript (**\$5 per copy**). The Registrar's Office will forward this transcript to the Admissions and Standards Committee.
6. Submit **ten** stapled packets of appellant materials to the Registrar's Office (MH 161) by 12:00 p.m. (noon) Monday prior to the scheduled Admissions and Standards Committee meeting. The packet **must** contain the following documents, arranged in the following order:
 - a. A completed "Application for Readmission as an Exception to University Policy Form";
 - b. Written statement indicating the extenuating reasons for the previous academic difficulties and a plan for ensuring success in future terms;
 - c. Any supporting documentation as directed by the college, school or other University personnel;
 - d. Any additional supporting documentation (optional); and,
 - e. SASS Degree Audit (obtained from myUCF at <https://my.ucf.edu>).

Excepting students who have not completed the required suspension period, the appellant will be afforded the opportunity to personally

appear before the Committee before it renders a decision.

Upon receipt of both the appeal and all required supporting documentation, the Admissions and Standards Committee will render a decision. The decision of the Admissions and Standards Committee is final. There is no appeal of an Admissions and Standards Committee decision.

Academic Amnesty Program

Effective Fall 2004, the Academic Amnesty Program provides undergraduate students who are not eligible for readmission for academic reasons the opportunity to readmit to UCF after five or more years of separation. This program allows the student to nullify up to two consecutive terms worth of UCF coursework from his or her UCF grade point average. Students may not select specific courses within the two identified terms. If the student satisfactorily completes the Academic Amnesty Program, the University will remove from the student's UCF GPA all UCF coursework for which the student enrolled during the selected consecutive terms. While grades nullified by satisfactory completion of the Academic Amnesty Program are not used in calculating the student's UCF GPA, all course work will remain part of the student's permanent record.

To apply for entrance into the Academic Amnesty Program, the student must:

- 1) Gain the written support for the Academic Amnesty Program from the student's college or school and present to the Admissions and Standards Committee an academic plan of action approved by the college advising office. This plan will include the following:
 - a. The specific semesters of the student's academic history to be nullified by satisfactory completion of the Academic Amnesty Program;
 - b. Approved courses in which the student will enroll during the two terms that comprise the Academic Amnesty Program; and
 - c. Any additional requirements mandated by the college advising office (i.e., academic advising or mentoring, required tutoring or academic support services, etc.).
 - d. Complete and submit an Academic Amnesty Agreement to the Admission and Standards Committee.
- 2) The UCF Admissions and Standards Committee will determine a student's eligibility for entrance into the Academic Amnesty Program. The student will be required to appear before the Admissions and Standards Committee.

Obtain the Academic Amnesty form at <http://www.registrar.ucf.edu>.

Athletic Eligibility and Retention Committee

The Athletic Retention and Eligibility Committee (AERC) has oversight of the athletic participation of students who engage in intercollegiate athletics. It relies on information gathered from the Office of Athletic Compliance, the Office of Academic Services for Student-Athletes, coaches and the individual student. Student-athletes who desire to continue their athletic participation while being on academic probation, must have the written support of their coach, complete a written document stating their methods and dedication to improve their level of academic achievement and the approval of the AERC. The committee shall review each applicant's academic potential and current status and determine conditions for the individual's degree of continued participation in intercollegiate athletic activities.

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 (MH 161). Graduate students must submit the form to the Graduate Studies Office (MH 230). Current UCF employees and those 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 at MH 161 or online at <http://www.registrar.ucf.edu>.

Address and E-Mail Changes

The student's address is obtained from the "Application for

Admission or Readmission." It is the students' responsibility to make appropriate changes to the address **as they occur**. Address and e-mail changes can be made on myUCF (<https://my.ucf.edu>). Address and e-mail changes also can be made 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 identification number provided.

Transcript Requests

Requests for official 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 at <http://www.registrar.ucf.edu>. 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 \$5 per transcript charge is assessed for each transcript request. Payment for official transcripts is required **at the time of 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 <http://www.registrar.ucf.edu/> or call 407-823-3100. Transcripts may be sent electronically to other Florida public institutions. Requests require at least 2 business days to process. Transcripts not claimed with 30 days of printing **will be discarded and must be reordered**. A \$5.00 per reordered transcript fee **must** be submitted with the reorder request. Grades are available from myUCF at <https://my.ucf.edu>.

Third Attempt Course Repeat Surcharges

All students enrolled in undergraduate courses for the Fall 1997 semester and beyond are subject to an additional surcharge fee when they enroll in the same undergraduate college credit course three or more times. Completed courses, withdrawals, and courses with incomplete grades are counted as attempts, including courses repeated in order to raise the GPA or to achieve a specific grade. Courses that specify they may be repeated for credit are exempt. Students seeking exemptions for extenuating circumstances or financial hardship may submit a written petition with documentation to the Fee Appeals Committee, Student Accounts Office (MH 107).

Exemptions to the third attempt surcharge will be considered through a Fee Appeal Process.

Exceptions to the repeat course fee requirement shall be based only on extenuating circumstances, or financial hardship.

Extenuating Circumstances

Those circumstances determined by the University to be exceptional and beyond the control of the student. These may include, but not be limited to, the following:

- 1) Medical condition or serious illness preventing completion;
- 2) Death of an immediate family member;
- 3) Involuntary call to active duty; or
- 4) Other emergency circumstances or extraordinary conditions.

Special Limitation: students who withdraw or fail a class due to extenuating circumstances may be granted an exemption only once for each class.

Financial Hardship:

Should include, but not be limited to, the following:

- 1) Qualification for federal need-based financial aid; or
- 2) Other documented financial hardship may be considered.

Academic Regulations and Procedures

For details, contact the Student Accounts Office (MH 107) at 407-823-2433.

Major, Minor, Undergraduate Certificate Policies

Policy for Undeclared Students

All students at the University of Central Florida are expected to officially declare a major prior to earning 45 college credit hours (this includes credits earned from CLEP, Dual Enrollment, AP and IB). An administrative hold to prevent future university registration will be placed on the records of all students that have not declared a major. Students must meet with an academic advisor (within Student Development and Enrollment Services, the Colleges, or Regional campuses) to have the hold released.

Majors

The University assigns the major that the student indicated on the "Application for Admission or Readmission." It is the student's responsibility to make appropriate major changes. Students who change majors between different colleges must adopt the most current catalog. Students changing from a declared major to an "Undeclared" or "Undecided" major also must adopt the most current catalog. For each of these students, the University automatically will update the catalog year when processing the change in major. Students may retain their catalog when changing tracks/concentrations within the same major (e.g., English: Literature to English: Creative Writing), or when moving from a "Pending" category to the equivalent major (e.g., "Business Pending" to "Accounting"). If the new major is a different subject from the "pending" major (e.g., "Business Pending" to "History"), the student must adopt the most current catalog and the University automatically will update the catalog year when processing the change in major. If they have not interrupted residency, students entering UCF in an "Undeclared" or "Undecided" category may retain their catalog when initially selecting a major. The "Undergraduate Major Change Form" is available at the college and school advising offices or from the Registrar's Office website at <http://www.registrar.ucf.edu>. Forms may be submitted in person to the college/school advising offices, by mail, or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

Minors

A minor is a complement to a bachelor's degree program/major requiring at least 18 credit hours in a field. A student may declare a minor at **any point during the first term of enrollment up to but no later than the submission of the "Intent to Graduate Form."** **Students strongly are urged to declare a minor as early as possible.** Minors are optional unless required by your specific major. All graduation requirements (i.e., the minor and major) must be from a single UCF catalog for which a student is eligible. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second degree is earned, certification will not be made at a later time even if additional courses have been completed. The "Undergraduate Minor Declaration/Change Form" is available at the college and school advising offices. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

Undergraduate Certificates

An undergraduate Certificate is a supplement to the bachelor's degree program/major. Certificates are optional. Effective Summer 2005 students may receive an undergraduate Certificate by completing all requirements for an undergraduate Certificate program. Students must be admitted in a degree seeking program to be eligible to receive an undergraduate Certificate. Certificate programs may not be taken independently of a degree program. All graduation requirements (i.e. the certificate and major/minor) must be from the same UCF *Undergraduate Catalog* for which a student is eligible. Certificates may be certified at any time during the student's undergraduate career. Some certificates may restrict awarding the certificate to time of degree completion. The undergraduate Certificate is awarded upon completion of the certificate requirements as determined by college for each specific certificate. The Undergraduate Certification form is available at the college advising offices.

Student Records

Student records submitted become the property of the University and cannot be returned to the student or released to a third party. Copies of student records will be released only upon receipt of a written request signed by the student. Student records are stored in paper

form or are digitally scanned. Once the student has been absent from the University for three academic years, all records are transferred to optical disk storage and the paper copies destroyed.

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 official, 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 right 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 Information

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." To do this, students must complete the "Directory Disclosure/Release Authorization" form available at the Registrar's Office (MH 161) or online at <http://www.registrar.ucf.edu>, requesting that this information be withheld. *The Golden Rule* outlines the University procedures for confidentiality. For additional information describing FERPA policy, enter the Department of Education Family Policy Compliance Office website at <http://www.ed.gov/offices/OM/fpco/>.

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 (MH 161) or from <http://www.registrar.ucf.edu/hea/>

Accelerated Education Opportunities

The University of Central Florida provides a number of options by which students may shorten the time required to complete the baccalaureate degree. These options permit the University to recognize high levels of academic achievement and acquisition of knowledge prior to or during attendance at the University. Procedures that may be used include the Advanced Placement Program (AP), the College Level Examination Program (CLEP), University Course Credit by Examination, DANTES, and the International Baccalaureate. A maximum of 45 credit hours in any combination of extension, AP, IB, correspondence, CLEP, Armed Forces Service School Credits, and University Credit by Examination will be accepted by the University for application toward an undergraduate degree. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. In addition, there are accelerated Undergraduate - Graduate Programs linking the bachelors and Master's degree listed in the catalog.

Test credit is applied according to the published policy at the time the credit is received and posted by the university.

For updated information, please visit <http://www.registrar.ucf.edu/testcredit.html>.

Advanced Placement Program (AP) (see table below)

Students who have participated in the Advanced Placement Program in high school and have received a score of 3, 4, or 5 on the national examinations will receive college credit in the appropriate subject areas. Students should consult their high school guidance counselor or write to the Educational Testing Service, Princeton, NJ 08540, for additional information. The table labeled "Advanced Placement Exams" provides information related to Advanced Placement examination areas and subtest areas for which credit may be awarded

Advanced Placement Language (all modern languages)

A score of 3 earns a minimum of one semester (min. 3 credits - XXX 2230 or 2200) of 2000-level language. A score of 4 or 5 earns a minimum of two semesters (min. 6 credits XXX 2230 and 2231 or XXX 2200 and 2201) of 2000-level language. No literature credit will be awarded for AP foreign language exams.

Advanced Placement Literature (all modern languages)

A score of 3 earns a minimum of one semester (min. 3 credits) of introductory literature. A score of 4 or higher earns a minimum of two semesters (min. 6 credits) of introductory literature.

Advanced Placement Latin

The AP Latin course focuses on one or two authors. Students either study Vergil, or follow a "Latin Literature" syllabus that includes Catullus and either Horace, Ovid, or Cicero. A minimum of one

ADVANCED PLACEMENT (AP)

Exam	Score of 3	GEP Usage	Score of 4	Score of 5	GEP Usage
Art History	ARH 1000		ARH 2050 and 2051	Same as 4	CUL & HIS Found 2
Biology	BSC 1005/1005L	SCI Found 2	BSC 2010C	BSC 2010C and BSC 2011C	SCI Found 2
Calculus AB	MAC 2311	MAT Found 1	Same as 3	Same as 3	MAT Found 1
Calculus BC	MAC 2311	MAT Found 1	MAC 2311 and 2312	Same as 4	MAT Found 1
Chemistry	CHM 1020 & 1020L	SCI Found 1	CHM 2045C or CHM 2045 and 2045L	CHM 2045C and CHM 2046 & 2046L	SCI Found 1
Chinese Language & Culture	CHI 2200		CHI 2200 and 2201	Same as 4	
Computer Science A	CGS 1075	MAT Found 2	Same as 3	Same as 3	MAT Found 2
Computer Science AB	CGS 1076	MAT Found 2	Same as 3	Same as 3	MAT Found 2
Economics: Macro	ECO 2013	SOC Found 1	Same as 3	Same as 3	SOC Found 1
Economics: Micro	ECO 2023	SOC Found 1	Same as 3	Same as 3	SOC Found 1
English Language and Composition	ENC 1101	COM Found 1	ENC 1101 and 1102	Same as 4	COM Found 1 and 2
English Literature and Composition	ENC 1101	COM Found 1	ENC 1101 and LIT 1005#	Same as 4	COM Found 1 and 2 or COM Found 1 and CUL and HIST Found 2
Environmental Science	ISC 1051	SCI Found 2	Same as 3	Same as 3	SCI Found 2
European History	EUH 1009		EUH 2000 and 2001	Same as 4	CUL and HIS Found 1 and 3
French Language	FRE 2200		FRE 2200 and 2201	Same as 4	
French Literature	FRW 3100		FRW 3100 and 3101	Same as 4	
German Language	GER 2200		GER 2200 and 2201	Same as 4	
Government and Politics: Comparative	CPO 1002		Same as 3	Same as 3	
Government and Politics: United States	POS 2041	SOC Found 1	Same as 3	Same as 3	SOC Found 1
Human Geography	GEO 2400		Same as 3	Same as 3	
Italian Language & Culture	ITA 2200		ITA 2200 and 2201		
Japanese Language & Culture	JPN 2200		JPN 2200 and 2201		
Latin: Literature	LNW 3700		Same as 3	Same as 3	
Latin: Vergil	LNW 2321		Same as 3	Same as 3	
Music Theory	MUT 1001 if composite score is 3 or higher MUT 1111 and MUT 1241 if both aural and non-aural subscores are 3 or higher		Same as 3	Same as 3	
Physics B	PHY 2053C	SCI Found 1	PHY 2053C and 2054C	Same as 4	SCI Found 1
Physics C: Electricity/Magnetism	PHY 2054C	SCI Found 1	PHY 2049C	Same as 4	SCI Found 1
Physics C: Mechanics	PHY 2053C	SCI Found 1	PHY 2048C	Same as 4	SCI Found 1
Psychology	PSY 2012	SOC Found 2	Same as 3	Same as 3	SOC Found 2
Russian Language & Culture	RUS 2230		RUS 2230 and 2231	Same as 4	
Spanish Language	SPN 2230		SPN 2230 and 2231	Same as 4	
Spanish Literature	SPW 3100		SPW 3100 and 3201	Same as 3	
Statistics	STA 2023	MAT Found 2	Same as 3	Same as 3	MAT Found 2
Studio Art: Drawing Portfolio	ART 2300C		Same as 3	Same as 3	
Studio Art: 2-D Design Portfolio	ART 2201C		Same as 3	Same as 3	
Studio Art: 3-D Design Portfolio	ART 2203C		Same as 3	Same as 3	
United States History	AMH 1000		AMH 2010 and 2020	Same as 4	CUL & HIS Found 1 & 3
World History	WOH 2022	CUL & HIS Found 1	Same as 3	Same as 3	CUL & HIS Found 1 & 3

#If the student has previous credit for ENC 1101 and ENC 1102, credit will be awarded for LIT 1005.

REGULATIONS & PROCEDURES

Academic Regulations and Procedures

semester (min. 3 credits) should be awarded for a score of 3 or higher.

AP Latin: Vergil LNW 2321
 AP Latin: Latin Literature LNW 3700 (number unique to exam)

program in high school may receive a maximum of 30 hours of credit for scores of four or higher in the subsidiary and higher level program areas. The table below labeled "International Baccalaureate" provides information related to the International Baccalaureate program credit.

International Baccalaureate Program (see table below)

Students who have participated in the International Baccalaureate

International Baccalaureate (all modern languages)

International Baccalaureate offers examinations in many languages and literatures at different levels: B, A2, and A1. Most students in

INTERNATIONAL BACCALAUREATE

Exam	Score of 4	GEP Usage	Score 5-7	GEP Usage
Biology	BSC 1005/1005L	SCI Found 2	BSC 1005/1005L and BSC 2010C	SCI Found 2
Business Management	GEB 2011		GEB 2011 and 2905	
Chemistry	CHM 1020 and 1020L	SCI Found 1	CHM 1020/1020L and CHM 2045C	SCI Found 1
Computer Science	CGS 1078	MAT Found 2	CGS 1078 and 1906	MAT Found 2
Design Technology	ETI 1410		ETI 1410 and 1906	
Economics	ECO 1000		ECO 2013 and 2023	SOC Found 1
Ecosystems and Societies	EVR 1017		EVR 1017 and 1906	
English A1	ENC 1101	COM Found 1	ENC 1101 and 1102	COM Found 1 and 2
Environmental Systems	ISC 1050	SCI Found 2	ISC 1050 and 1906	SCI Found 2
Film Studies	FIL 1001	CUL and HIS Found 2	FIL 1001 and 1002	CUL and HIS Found 2
French	FRE 1121		FRE 1121 and 2200	
Further Mathematics (Advanced Mathematics)	MHF 1202	MAT Found 1	MHF 1202 and 1209	MAT Found 1
Geography	GEA 1000		GEO 1200 and 1400	SCI Found 2
German	GER 1121		GER 1121 and 2200	SCI Found 2
History	WOH 1030	CUL & HIS Found 1	WOH 1030 and WOH 1999	CUL & HIS Found 1
Information & Information Technology for a Global Society	IDS 1906 (3 credits)		IDS 1906 (6 credits)	
Islamic History	ASH 1906 (3 credits)		ASH 1906 (6 credits)	
Latin	LAT 2230		LAT 2230 and 1906	
Math Methods	MAC 1105	MAT Found 1	MAC 1105 and 1140	MAT Found 1
Math Studies	MAT 1033		MAT 1033 and MGF 1106	MAT Found 1
Mathematics	MAC 1147	MAT Found 1	MAC 1147 and 2233	MAT Found 1
Music	MUL 2010	CUL & HIS Found 2	MUL 2010 and HUM 1906	CUL & HIS Found 2
Philosophy	PHI 2010	CUL & HIS Found 2	PHI 2010 and 1906	CUL & HIS Found 2
Physics	PHY 1020C	SCI Found 1	PHY 2053C and 2054C	SCI Found 1
Psychology	PSY 2012	SOC Found 2	PSY 2012 and 1906	SOC Found 2
Social Anthropology*	ANT 2410	SOC Found 2	ANT 2410 and 1906	SOC Found 2
Spanish	SPN 1121		SPN 1121 and 2230	
Theatre Arts	THE 2000	CUL & HIS Found 2	THE 2000 and 1906	CUL & HIS Found 2
Visual Arts	ART 1012		ART 1012 and 1906	

*This use for General Education applies only to I.B. credit.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

	Scale Score of 50 for passing	GEP Usage	Comments
Accounting, Financial	ACG 1001		
Accounting, Principles of	ACG 1001		
Algebra, College	MAC 1105	MAT Found 1	
Algebra-Trigonometry, College	MAC 2147	MAT Found 1	
American Government	POS 2041	SOC Found 1	
American Literature	AML 1000	CUL & HIS Found 2	
Biology, General	BSC 1005	SCI Found 2	
Business Law, Introduction to	BUL 1241		
Calculus	MAC 2233	MAT Found 1	
Chemistry, General	CHM 1020	SCI Found 1	
Educational Psychology, Introduction to	EDP 1002		
English Composition with Essay	ENC 1101	COM Found 1	
English Literature	ENL 1000	CUL & HIS Found 2	
French Language	FRE 1120		Score of 62 or higher earns FRE 1120 and 1121
German Language	GER 1120		Score of 63 or higher earns GER 1120 and 1121
History of the United States I: Early Colonizations to 1877	AMH 2010	CUL & HIS Found 1 or 3	
History of the United States II: 1865 to Present	AMH 2020	CUL & HIS Found 1 or 3	
Human Growth and Development	DEP 2004		
Humanities	HUM 2250		
Information Systems and Computer Applications	CGS 1077	MAT Found 2	
Macroeconomics, Principles of	ECO 2013	SOC Found 1	
Management, Principles of	MAN 2021		
Marketing, Principles of	MAR 2011		
Mathematics, College	MGF 1106	MAT Found 1	
Microeconomics, Principles of	ECO 2023	SOC Found 1	
Precalculus	MAC 1140	MAT Found 1	
Psychology, Introductory	PSY 2012	SOC Found 2	
Sociology, Introductory	SYG 2000	SOC Found 2	
Spanish Language	SPN 1120		Score of 66 or higher earns SPN 1120 and 1121
Trigonometry	MAC 1114	MAT Found 1	
Western Civilization I: Ancient Near East to 1648	EUH 2000	CUL & HIS Found 1 or 3	
Western Civilization II: 1648 to Present	EUH 2001	CUL & HIS Found 1 or 3	

Florida take English as their A1 level language (literature for native or near-native speakers) and one or more foreign Language B exams. Within each category, there are "standard" and "higher" level examinations. Institutions may wish to award additional credit for higher-level exams.

Language B (most common)

Students earn a minimum of one semester (3 credits) of language credit at the Elementary Language II or equivalent level (usually 1121) level for a score of 4. Students who score 5-7 earn a minimum of two semesters (min. 6 credits) of Elementary Language II and Intermediate Language I or their equivalents (usually 1121/2200) level. No literature credit will be awarded for International Baccalaureate Language B exams.

Language A2 (language and literature courses for highly proficient speakers; uncommon in Florida)

No direct equivalent. Content of Language A2 varies widely. Minimum 3 credits language or literature for score of 4, 6 credits of language or literature for a score of 5-7.

Language A1 (literature courses for native speakers; languages other than English)

No direct equivalent. Content of Language A1 varies widely. Minimum 3 credits in literature for score of 4, 6 credits for score of 5-7.

IB Latin

LNW 3700. This is a unique number assigned to this exam. The IB

Latin course includes a reading component and a selection of two out of four authors on a list that changes periodically. Minimum 3 credits for score of 4, 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

College Level Examination Program (CLEP) (see table on previous page)

Credit is awarded for scaled scores of 50 or higher on computer-based CLEP exams taken after July 1, 2001. A percentile score of 50 or higher is required on CLEP examinations taken prior to July 1, 2001. CLEP credit may be earned by CLEP subject examinations. Successful completion of CLEP examinations means performance at or above the minimum qualifying score. CLEP credit cannot be used to reduce a grade point deficiency. For example, CLEP cannot be substituted for a grade awarded for a previously completed course. CLEP may not be used to fulfill the senior institution requirements.

Awarding of CLEP credit is subject to the conditions listed below.

- Credit may be awarded in the CLEP subject examination area, provided the student: a) is not within 60 credit hours of graduation; b) has not previously received comparable college course credit in the CLEP examination area; c) does not receive comparable college credit in the CLEP examination area in the same term the examination is taken or in a subsequent term; d) has not previously completed, failed, nor received credit by UCF (transfer or otherwise) in a more advanced course in the exami-

CAMBRIDGE AICE EXAMS

Exams	Passing score of "A", "B", "C", "D" or "E"	GEP Usage
Accounting (AS-Level)	ACG 1001	
Accounting (A-Level)	ACG 1001 and ACG 1906	
Art and Design (AS-Level)	ART 1906	
Art and Design (A-Level)	ART 1906 and ART 1907	
Biology (AS-Level)	BSC 1005/1005L	SCI Found 2
Biology (A-Level)	BSC 2010C and BSC 1906	SCI Found 2
Business Studies (AS-Level)	GEB 2011	
Business Studies (A-Level)	GEB 2011 and GEB 2905	
Chemistry (AS-Level)	CHM 1020/1020L	SCI Found 1
Classical Studies (AS-Level)	CLA 1010	
Chemistry (A-Level)	CHM 1020C and CHM 2045C	SCI Found 1
Computing (AS-Level)	CGS 1073	MAT Found 2
Computing (A-Level)	CGS 1073 and CGS 1074	MAT Found 2
Design & Technology (AS-Level)	ETI 1482C	
Design & Technology (A-Level)	ETI 1482 and ETI 1906	
Economics (AS-Level)	ECO 1000	
Economics (A-Level)	ECO 2013 and ECO 2023	SOC Found 1
English (AS-Level) *	ENC 1101 COM	Found 1
English - Literature in English (A-Level) #	ENC 1101 or ENC 1102	COM Found 1 or COM Found 2
Environmental Science (AS-Level)	EVR 1001C	SCI Found 2
French Language (AS-Level)	FRE 1121	
French (A-Level)	FRE 1121 and FRE 2200	
French Literature (AS-Level)	FRW 3100	
Further Mathematics (A-Level)	MAC 2311 and MAC 2312	MAT Found 1
General Paper	IDS 1110	
Geography (AS-Level)	GEA 1000	
Geography (A-Level)	GEO 1200 and GEO 1400	SCI Found 2
German Language (AS-Level)	GER 1121	
German (A-Level)	GER 1121 and GER 2200	
History (AS-Level)	HIS 1906 (3 credits)	Subject to review by History Dept
History (A-Level)	HIS 1906 (6 credits)	Subject to review by History Dept
Latin (AS-Level)	LAT 1121	
Marine Science (AS-Level)	OCE 1001	
Marine Science (A-Level)	OCE 1001 and OCB 1000	
Mathematics (AS-Level)	MAC 1147	MAT Found 1
Mathematics (A-Level)	MAC 2311	MAT Found 1
Music (AS-Level)	MUH 1001	
Music (A-Level)	MUH 1001 and 2011	
Physics (AS-Level)	PHY 1020C	SCI Found 1
Physics (A-Level)	PHY 2053C and 2054C	SCI Found 1
Psychology (AS-Level)	PSY 2012	SOC Found 2
Psychology (A-Level)	PSY 2012 and PSY 1906	SOC Found 2
Sociology (AS-Level)		
Sociology (A-Level)	SYG 2000	SOC Found 2
Spanish Language (AS-Level)	SPN 1121	
Spanish (A-Level)	SPN 2230 and SPN 2231	
Thinking Skills (AS-Level)	PHI 1103	
Thinking Skills (A-Level)	PHI 1103 and 1906	
Travel and Tourism (AS-Level)	HFT 1000	
Travel and Tourism (A-Level)	HFT 1000 and 1906	

*If the student has previous credit for ENC 1101, credit will be rewarded for ENC 1102.

#If the student has previous credit for ENC 1101 and ENC 1102, credit will be awarded for LIT 2100.

Academic Regulations and Procedures

nation area; and e) does not complete nor receive credit by UCF (transfer or otherwise) in a more advanced course during the semester in which the CLEP examination is taken.

The table labeled "College Level Examination Program" provides information related to the CLEP examination areas and subtest areas for which credit may be awarded. In addition, this table delineates the minimum qualifying score and the UCF course for which each examination can substitute.

CLEP Language Examinations

A score of 50 on any of the language exams earns a minimum of one semester (3 credits) of Elementary Language I or equivalent level (generally numbered 1120). A score at or above the second CLEP threshold level (currently 62 for French, 63 for German, or 66 for Spanish) earns a minimum of two semesters (6 credits) of Elementary Language I and II or equivalent level (generally numbered 1120-1121). No literature credit should be awarded for CLEP foreign language exams.

Credit by Examination

Regularly enrolled (excludes transient and non-degree) undergraduate students at the University of Central Florida may obtain credit for specific University courses through departmental examinations. A student who believes he or she has acquired the knowledge and/or skills of a specific University course should consult his or her advisor and the chair of the department in which the course is offered to arrange for an examination. Degree credit will be awarded for those courses successfully completed by departmental examination. Credit by examination may not be used to reduce the 30 credit hours residency requirement. Credit by examination will not be given for any

course lower in content than courses in the same discipline in which students are currently enrolled or which they have already completed or failed. Permission to take an examination is approved by the chair of the department and the dean of the college in which the course is offered.

Cambridge AICE Exams (see table on previous page)

The Advanced International Certificate of Education (AICE) program is an international, advanced secondary curriculum and assessment program equivalent to the British system of "A-Levels." Information about the program, including course syllabi, can be found online at http://www.cie.org.uk/q_and_s/gce_a/index.html.

DANTES Examination Credit (see table below)

The University will award credit to students presenting qualifying scores in DANTES examinations. The table labeled "DANTES Subject Standardized Tests (DSST)" provides information related to the Dantes Examination credit. For additional information: <http://www.getcollegecredit.com>.

Excelsior College Examinations (see table below)

The table labeled "Excelsior College Examinations" provides information related to the Excelsior examination areas and subtest areas for which credit is awarded. More detailed information about Excelsior College Examinations, including detailed test descriptions, can be found online at <http://www.excelsior.edu>.

DANTES SUBJECT STANDARDIZED TESTS (DSST)

Exam	Course Number	GEP Usage	Passing Grade Credit
Art of the Western World	ARH 2000		48
Astronomy	AST 2002		48
Business Law II	BUL 2242		44
Business Math	OMB 1001		48
Criminal Justice	CCJ 1000		49
Environment and Humanity	EVR 1017		46
Ethics in America	PHI1630		46
Fundamentals of College Algebra	MAC 1105	MAT Found 1	47
Foundations of Education	EDF 1002		46
Fundamentals of Counseling	PCO 1202		45
General Anthropology	ANT 2000	SOC Found 2	47
Here's to Your Health	HSC 1100		48
History of the Vietnam War	AMH 2059		44
Human Resources Management	MAN 1300		46
Human/Cultural Geography	GEO 1400		48
Intro to Computing	CGS 1060	MAT Found 2	45
Intro to the Modern Middle East	ASH 2044		47
Intro to World Religions	REL 2300	CUL and HIST Found 2	48
Introduction to Business	GEB 2011		46
Introduction to Law Enforcement	CCJ 1100		45
Lifespan Developmental Psychology	DEP 2004		46
Management Information Systems	ISM 1000		46
Money and Banking	BAN 1501		48
Organizational Behavior	INP 1002		48
Personal Finance	FIN 1100		46
Physical Geology	GLY 1000	SCI Found 2	46
Principles of Finance	FIN 1000		46
Principles of Financial Accounting	ACG 1001		47
Principles of Physical Science I	PSC 1121	SCI Found 1	47
Principles of Public Speaking	SPC 1600	COM Found 3	47
Principles of Statistics	STA 1014	MAT Found 2	48
Principles of Supervision	MNA 1345		46
Rise and Fall of the Soviet Union	EUH 1066		45
Technical Writing	ENC 2210		46
The Civil War and Reconstruction	AMH 1056		47

EXCELSIOR COLLEGE EXAMINATIONS TABLE

Exam Title	Course Number (3 credits per course)	GEP Usage	Passing Grade Credit
Abnormal Psychology	CLP 1140		45
English Composition	ENC 1101	COM Found 1	40
Ethics: Theory and Practice	PHI 1630		46
Foundations of Gerontology	GEY 1000		46
Human Resources Management	MAN 1300		44
Life Span Developmental Psychology	DEP 2004		42
Microbiology	MCB 1000		45
Psychology of Adulthood and Aging	DEP 1401		45

SPECIAL ACADEMIC PROGRAMS AND RESEARCH INSTITUTES

International Studies and Programs

Assistant Vice President of International and Interdisciplinary Studies: Diane Z. Chase; *Associate Director:* Angel Cardec; Research Pavilion, Suite 395, P.O. Box 163105, Orlando, FL 32816-3105; 407-882-2300; Fax: 407-275-4386; <http://www.international.ucf.edu>.

The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the

International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university's broader strategic plan for internationalization.

The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocolary statements of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Study Abroad Programs

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self confidence, and awareness of other cultures are only some of the benefits of study abroad. Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages' intensive programs in France, Japan, Germany, Spain and Italy; Social Work Department programs in South Africa and Russia; Criminal Justice in Costa Rica and Russia, Nursing in Sweden, Education in the United Kingdom, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms

allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Qingdao University in China; Universit e de Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jonkoping, Mallardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom.

UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system.

UCF students apply to these programs directly and must become transient students at the host institution.

There are many additional study abroad options available to UCF students. It is important that students investigate their choices, the requirements and the implications that each choice has in terms of cost, credit transferability and progress toward graduation. OIS staff members can provide program advice and general information about options. For up-to-date information, please visit <http://www.international.ucf.edu>, or contact the office at 407-882-2300.



Experiential Learning, Undergraduate Studies

Director: Sheri Dressler; Ferrell Commons, Suite 203; (407) 823-2667; <http://www.csel.ucf.edu>

Experiential Learning is an instructional department reporting to Undergraduate Studies and collaborates with Career Services in a joint venture called Career Services and Experiential Learning (CSEL). Its mission is: 1) to insure that quality experiential learning opportunities are available to all UCF students before graduation, 2) to provide excellent applied learning experiences for students and to support faculty in other academic departments in their efforts to do the same, 3) to create meaningful and productive educational partnerships with employers and community partners locally, nationally, and internationally.

Experiential Learning at UCF has received national recognition for its quality instruction and broad-based collaboration. It provides a menu of applied learning options to undergraduate and graduate students in all Colleges, resulting in over half the student body participating in experiential learning experiences each year. Students are encouraged to come to the Experiential Learning office any time before they want to participate to receive help in planning to include experiential learning in their academic program.

The Experiential Learning department directly delivers cooperative education (co-op) and internship courses and facilitates and supports department faculty in the development and provision of internship and service-learning courses. It also administers the Florida Work Experience Program (FWEP) through which additional paid, major-related experiences are created for students with documented unmet financial need. All of these options provide major-related, real-world experience off-campus to assist students to apply classroom theory and gain the personal, academic and professional competencies they need to be work-ready and contributing community members upon graduation.

Special Academic Programs and Research Institutes

- Co-op opportunities are available to students on all campuses in all Colleges. They are always major-related, paid, and multiple semesters with progressively responsible duties. They are either part-time around class schedules or full-time alternating semesters, structured for learning with reflection and evaluation, designated on transcripts, and available for credit when it will count in a student's academic program.
- Internships provide similar benefits to co-op experiences. They are usually one-semester, paid or unpaid, most often for credit, and usually occur toward the end of a student's program of study. They are available through the Experiential Learning department or through departments in Colleges. Contact information for department internship coordinators is on the Experiential Learning website.
- Service-Learning is a means of incorporating experiential learning into academic courses so that students learn course content through service experiences. Through this process, students gain an appreciation for civic engagement while using course content in a real-world environment. Courses using this approach are designated with SL in course listings so that students can choose to participate in this type of learning experience. A service-learning certificate, noted on a student's transcript, is available for students who complete four service-learning courses.

Current co-op and internship opportunities through Experiential Learning, requirements for participation, and information and materials for Service-Learning are all listed on our website under the Experiential Learning link. To participate in co-op or internships, students complete an application online any time during the year, preferably during the semester before they want to participate to allow time to obtain an appropriate learning experience. Once students apply online, they meet with Experiential Learning faculty in the Experiential Learning office to obtain opportunities and register for Experiential Learning courses.

Division of Continuing Education

Assistant Vice President/Director: J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390, Orlando, FL 32826; 407-882-0260; Fax: 407-882-0244
<http://www.ce.ucf.edu>

The Division of Continuing Education (DCE) serves as the unit within Academic Affairs for the centralized administration of continuing education at UCF. In partnership with the academic, business, and professional communities, DCE provides local, state, national and international clients with high quality, affordable, credit/noncredit educational programs and services. DCE clients include degree students, area professionals, K-12 students, domestic and international corporations, and local/state/federal government.

Center for Multilingual Multicultural Studies

Director: Myrna Creasman; Bldg #81, P.O. Box 163177, Orlando, FL 32816-3177; 407-823-5515; Fax: 407-823-5465
<http://www.cmms.ucf.edu>

Using contemporary teaching methodology and computer-assisted instruction, the Center for Multilingual Multicultural Studies provides quality English language instruction for international students. Four levels of instruction are offered which range from beginning to advanced, and special attention is given to preparing students for academic course work in their specialized fields of study. Full-time students enrolled at the advanced level may elect to take courses as non-degree-seeking students while enrolled in the Intensive English program. Students are required to take an entry placement test to determine their level of proficiency. Student (F-1) visas are extended to qualified applicants. The Center also offers English for Special Purposes for international business personnel.

The Center for Multilingual Multicultural Studies at University of Central Florida is accredited by the Commission on English Language Program Accreditation (CEA) and agrees to uphold the CEA standards for English Language Programs. For further information about this accreditation, please contact the Commission of English Language Program, Accreditation, 700 S. Washington Street, Suite 200, Alexandria, VA 22314, (703) 518-2480.

Off-Campus College Credit Programs

Assistant Vice President/Director: J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390; 407-882-0260; Fax: 407-882-0244

Off-Campus College Credit Programs assists in the administration and coordination of approved partnerships and other specially formatted credit courses and degree programs for the academic colleges. Registration may be conducted on site at the various business, educational, or governmental locations served or via the web for student convenience. Course registration for non-admitted students **does not** constitute regular admission to the University.

Institutes and Centers for Research The Biomolecular Science Center

Director: P.E. Kolattukudy, BL 136, 407-823-1312; Fax 407-823-0956

The mission of this University-wide interdisciplinary academic center is to establish vibrant research and training programs under the general theme, "Molecular and Genomic Bases of Diseases and Therapeutics." Center research is focused in four areas: cancer, cardiovascular disease, infectious disease and neurodegenerative disease. See Burnett College of Biomedical Sciences section or visit www.biomed.ucf.edu for more information.

Center for Applied Human Factors in Aviation (CAHFA)

Director and Chief Scientist: Mustapha Mouloua; PH 302; 407-823-2910; Fax: 407-823-5862

The Center for Applied Human Factors in Aviation (CAHFA) has as its mission the enhancement of safety in the nation's airspace system through applied human factors research, systems design, and training strategies. Chartered in 1990, CAHFA is a research consortium established between UCF and Charter partner Embry-Riddle Aeronautical University, Daytona Beach, Florida. CAHFA's professional staff maintains offices on both campuses. The complimentary strengths of the two universities are combined to create a research resource that is without peer for solving aeronautical human factors problems. CAHFA research initiatives are targeted to significantly reduce human factors related accidents and incidents by determining the efficacy of and by developing strategies for achieving improvements in human performance.

Center for Economic Education

Director: Robert L. Pennington; BA2 303E; 407-823-2640

The Center for Economic Education strives to increase public knowledge of economic principles and their applications in daily life. Researchers at the Center develop, collect, and distribute economic educational materials. They also consult with and provide instruction to area schools (K-12), community colleges, and community organizations. Instruction focuses on the principles of economics and their use in making rational economic decisions. Affiliated with the National Council on Economic Education, the Center also conducts research in economic education.

Dick Pope, Sr. Institute for Tourism Studies

Director: Abraham Pizam; 9907 Universal Blvd., Suite 231-A Orlando, FL 32819; 407-903-8010

The mission of the Dick Pope Sr. Institute for Tourism Studies is to improve the quality of the tourism product and increase the benefits of tourism for the industry, state, and local community. To this end the Institute is involved in a variety of research projects and educational programs.

The Institute's research includes the collection, development, and dissemination of information relevant to the tourism and hospitality industry in the areas of marketing, consumer behavior and visitor satisfaction, feasibility, economic, motivation, and forecasting. Some of the Institute's patrons include tourism promotion agencies at the state and local levels; tourism development commissions; professional associations; and private enterprises such as attractions, hotels, resorts, restaurants and food-service establishments, ground and air transportation companies, travel agencies and tour operators, and other related businesses. The Institute devotes significant efforts to educating the public about the tourism industry in Florida and internationally, and about its contribution to the social and economic welfare of the community at large.

Executive Development Center

Associate Dean: Jai Ganesh; BA 237; 407-823-2446

The University of Central Florida College of Business Administration is proud to serve as a partner in executive education to the local, state, national, and international business communities. The Executive Development Center was established to provide leading executive education programs to both individuals and organizations.

The Center helps professionals from all industries become more dynamic leaders, more effective managers, and more valuable team members. Corporations benefit from participating in executive education programs by developing more productive and resourceful workforces that can meet the challenges of today's changing marketplace and tomorrow's opportunities.

The Center serves as a valuable resource in executive training and development by offering programs that address critical issues for managers and business leaders. These programs are offered in a variety of formats suitable for any individual or corporation through:

- Executive MBA Program;
- Professional MBA Program;
- Customized corporate programs;
- Conference services;
- Public enrollment programs;
- International seminars and exchange programs;

The UCF Executive Development Center has a strong commitment to the business community. Both small and large organizations find our programs to be contemporary, challenging, and effective.

Florida-Canada Linkage Institute

Interim Director: Angel Cardec; 407-882-2300; Fax: 407-275-4386;
E-mail: fcli@mail.ucf.edu

The Florida-Canada Linkage Institute was created by the Florida legislature to foster educational, commercial, cultural and social exchanges between Canada and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located within the Office of International Studies, promotes international collaboration through expanded public/private dialogues on cooperative research and technical assistance, cultural exchanges, the enhancement of language training, and student/faculty exchange programs. The institute administers the Out of State Tuition Fee Exemptions Program that is available for Canadian students to study in Florida state universities and community colleges for the same tuition and fees as Florida residents. The awards are limited to 25 FTE and are competitive.

Florida-Eastern Europe Linkage Institute

Interim Director: Angel Cardec; 407-882-2300; Fax: 407-275-4386;
E-mail: eeli@mail.ucf.edu

The Florida-Eastern Europe Linkage Institute was created by the Florida legislature to foster educational, commercial, cultural and social exchanges between the countries in central and eastern Europe and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located within the Office of International Studies, promotes international collaboration through expanded public/private dialogues on cooperative research and technical assistance, cultural exchanges, the enhancement of language training, and student/faculty exchange programs. The institute administers the Out of State Tuition Fee Exemptions Program that is available for students from central and east European countries to study in Florida state universities and community colleges for the same tuition fees as Florida residents. The awards are limited to 25 FTE and are competitive.

The John Scott Dailey Florida Institute of Government at the University of Central Florida

Director: Marilyn Crotty; 407-235-3960, Fax 407-317-7750

The Institute of Government, an affiliate of the John Scott Dailey Florida Institute of Government, is part of the College of Health and Public Affairs and provides training and technical assistance to state and local government, governmental associations, and non-profit organizations. Training workshops, certification programs, conferences, seminars, applied research projects, citizen surveys, strategic planning, and organizational development programs are among the services offered by the Institute.

Florida Solar Energy Center (FSEC)

Director: James Fenton, 1679 Clearlake Road, Cocoa FL 32922-5703; 321-638-1007; Fax: 321-638-1010.

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its facilities are located on the Cocoa campus of UCF at Brevard Community College. FSEC has gained national and international respect for its programs on photovoltaics, hydrogen from renewables, pollutant detoxification, photocatalytic processes, energy-efficient buildings, advanced cooling technologies, and solar thermal systems. It operates the only certified solar equipment testing program in the country. The yearly value of FSEC's external contracts exceeds its state support by a factor of two. The Center conducts seminars and workshops for teachers and professionals statewide, and its technical library boasts one of the nation's most extensive holdings on solar and alternative energy. FSEC's international Renewable Energy Training and Education Center is providing educational programs for government and industry leaders around the world.

Florida Space Institute (FSI)

Acting Director: Jaydeep Mukherjee; FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842;
E-mail: fsiccas@mail.ucf.edu
<http://fsi.ucf.edu>.

The Florida Space Institute provides unique, practice-based educational opportunities, combined with resources to design, build, and test small satellites, instruments, and payloads. Using these resources FSI supports member schools and other educational and commercial customers, providing opportunities for student involvement in real-world space programs. FSI is a State of Florida Type I Institute headquartered at UCF, but has 10 member schools statewide. Because FSI is located at the Space Center and not on the UCF campus, the programs are embedded within the existing space environment of the Center, at both the NASA/Kennedy Space Center and the Cape Canaveral Air Force Station locations. Typical research areas include small satellite innovations, broadband optical communications, electric propulsion, instrumentation development, space weather, and space power, driving engineering solutions with science requirements.

In addition to traditional classrooms, FSI has complete laboratories for supporting research projects, a satellite ground station, and a launch site for launching sub-orbital rockets to space. Additionally, we utilize the Space Center as a laboratory to perform field experiments. This combination of capabilities provides students with an unequalled opportunity to obtain an education with experience, through practice-based teaching, in the areas of space science and engineering.

Institute for Simulation and Training (IST)

Director: Randall Shumaker; 3100 Technology Pkwy, Orlando, FL 32826-0544; 407-882-1300; Fax: 407-882-1335;
E-mail: shumaker@ist.ucf.edu
<http://www.ist.ucf.edu>

The Institute for Simulation and Training (IST) was established to conduct research and develop technology that advances the state of the art in affordable and effective simulation capabilities and training systems. Driven by a proven record of research achievement, IST has developed unique qualifications and is positioned to provide the enabling technologies and technical talent necessary to research new ways to use simulation, improve human-agent interaction, and educate the next generation of scientists and professionals. In April 1985 a State of Florida resolution recognized the institute as part of a Center of Excellence for Simulation and Training.

IST laboratories, work space, and administrative offices occupy major portions of three buildings located in the Central Florida Research Park, adjacent the UCF campus. The park also is home to the Army Program Executive Office for Simulation, Training and Instrumentation (PEOSTRI), Naval Air Training Systems Division (NAVAIR Orlando), Marine Corps Program Manager for Training Systems, and Air Force Agency for Modeling and Simulation (AFAMS). The institute is one of an estimated 150 public and private entities specializing in simulation and training and located along the Central Florida High Tech Corridor traversing the state from Tampa to Daytona Beach, the largest concentration of this expertise in the world.

IST's research staff of scientists, engineers, and students conducts basic and applied research for a broad range of training devices and programs. Departments focus on applied research and technology, human/systems integration, and information systems technologies. Research areas include:

Special Academic Programs and Research Institutes

- Multi-resolution simulation
- Virtual and augmented reality
- Human-machine interface, robotics
- Computer-generated forces
- Mathematical foundations
- Application development
- Information management technology
- Human factors psychology and team training
- Training and education
- Media convergence
- Embedded simulation
- Parallel computing

IST actively assists UCF in the development of simulation-related curricula. First in the nation with a master's degree in simulation systems, the university in collaboration with IST now offers a truly multidisciplinary PhD in modeling and simulation. Both master's and doctoral programs accept applications from graduate students in computer science, digital media, psychology, engineering, mathematics, business, and related disciplines. The institute annually employs more than 80 graduate and undergraduate students in a variety of research and support positions. For many outstanding graduates, IST is a launching pad to a career in the simulation industry. A significant number of existing professionals, both in government and industry, enroll in modeling and simulation graduate programs to continue their advanced education and hone their research skills.

The institute includes in its efforts the development of research projects with potential commercial applications and adaptation of military technology to civilian markets. IST communicates the results of its research through seminars, conferences, publications, and workshops. In cooperation with UCF, the University of South Florida, and University of Florida, and with considerable participation from area industry and economic development organizations, IST promotes economic growth in the modeling and simulation industry throughout the Central Florida High Tech Corridor.

Institute of Statistics and Data Mining

Director: Nizam Uddin; CC2 208; 407-823-2289.

The Institute of Statistics and Data Mining provides statistical consulting support to graduate students, staff, and faculty members in all stages of their research projects. The Institute's services include, but are not limited to, design of experiments and surveys, determination of sample sizes, formulation of hypotheses, selection of appropriate analysis using a variety of software packages, interpretation and evaluation of statistical results, preparation of statistical reports, and writing statistical methods and data analyses sections of research grant proposals as well as data management through the data mining lab. The Institute's faculty members are available to work as co-investigators or statistical consultants on clients' grant proposals. The Institute also provides statistical support to various government agencies and private organizations. For a brief description of consulting activities of the Institute and research expertise of faculty members, please visit <http://dms.stat.ucf.edu/>. The Institute offers one free consulting session to Ph.D. graduate students. The consulting service is available to faculty members working on funded projects for a modest fee. Associate Professor Nizam Uddin (nuddin@mail.ucf.edu) is the Director of the Institute. However, other faculty members from the Department of Statistics and Actuarial Science are available for assisting clients.

Institute for Technical Documentation

Director: Karla Saari Kitalong; CNH 301C; 407-823-5416.

The Institute for Technical Documentation is a research and teaching center within the English Department. Its activities include technical communication consultation, usability evaluation and testing, and the development of communication training programs for clients. The Institute's experienced faculty and established facilities afford a strong rapport with local businesses and the capacity to assist in a wide variety of technical documentation projects and services.

Oak Ridge Associated Universities (ORAU)

President and ORAU Councilor for University of Central Florida: John C. Hitt; *ORAU Corporate Secretary:* Monnie E. Champion; 865-579-3306
<http://www.orau.org>

Since 1989, students and faculty of University of Central Florida have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 96 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in a number of programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are specially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing on these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available at <http://see.orau.org>, or by calling either of the contacts above.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

Small Business Development Center (SBDC)

Interim Director: Eunice Choi; Disney Entrepreneur Center, 315 E. Robinson St., Suite 100, Orlando FL 32801; 407-420-4850; E-mail: echoi@bus.ucf.edu
<http://www.bus.ucf.edu/sbdc>

The Small Business Development Center (SBDC) is part of a statewide organization designed to promote economic development by responding to the needs of the small business community. The SBDC, as part of the College of Business Administration at the University of Central Florida, is responsible for eight counties in the Central Florida area including four Sub-Centers located at Daytona Beach Community College, Brevard Community College, Seminole Community College, and Kissimmee Chamber of Commerce. Assistance is provided through workshops and individual counseling in the following areas:

- Start-Up
- Finance
- Operations
- Technology
- Marketing
- Accounting
- Management
- Business Plan Development

Additional programs provide assistance to clients in the areas of government contracting and international trade.

ACADEMIC DEGREES, MAJORS AND MINORS

Associate of Arts Degree

University of Central Florida students who satisfactorily complete 60 credit hours of acceptable college work may apply for an Associate of Arts degree. University requirements include achievement of a minimum UCF GPA of 2.0, fulfillment of the General Education Program requirements, and completion of the last 20 credit hours in residence at UCF. In addition, any student who desires to receive an A.A. degree must have satisfied the Gordon Rule requirement and passed the College Level Academic Skills Test.

The Associate of Arts degree is awarded only upon application. The application form may be obtained in Academic Services, MH 210 and completed by the end of the first week in the term in which the Associate of Arts degree is to be awarded. A student may not be enrolled as a transient student in another institution during the term in which the Associate of Arts degree is to be awarded. An Associate of Arts degree will not be awarded in the same term that the baccalaureate degree is to be awarded or in any term following the completion of the baccalaureate degree.

Baccalaureate Degrees

The University offers the degrees of Bachelor of Applied Science, Bachelor of Arts, Bachelor of Arts in Business Administration, Bachelor of Engineering Technology, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Education, Bachelor of Science in Engineering, Bachelor of Science in Nursing, and Bachelor of Science in Social Sciences. These degrees are available in the following Colleges with majors or areas of specialization as indicated:

Burnett College of Biomedical Sciences

Bachelor of Science (B.S.)

Majors: Molecular Biology and Microbiology
Biotechnology
Medical Laboratory Sciences

College of Arts and Humanities

Bachelor of Arts (B.A.)

Majors: Art, Digital Media, English, Film, Modern Languages Combination, French, History, Humanities, Music, Philosophy, Religious Studies, Spanish, Theatre

Bachelor of Fine Arts (B.F.A.)

Majors: Art, Film, Theatre

Bachelor of Music Performance (B.M.)

Bachelor of Music Education (B.M.E.)

Bachelor of Science (B.S.)

Majors: Digital Media, Photography

College of Business Administration

Bachelor of Science in Business Administration (B.S.B.A.)

Majors: Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing, Real Estate

Bachelor of Arts

Major: Economics

Bachelor of Arts in Business Administration (B.A.B.A.)
(Regional campuses only)

College of Education

Bachelor of Science (B.S.)

Majors: Art Education, Early Childhood Education, Elementary Education, English Language Arts Education, Exceptional Student Education, Foreign Language Education,

Mathematics Education, Physical Education, Science Education, Social Science Education, Sports and Fitness, Technical Education and Industry Training.

College of Engineering and Computer Science

Bachelor of Science (B.S.)

Majors: Aerospace Engineering (B.S.A.E.), Civil Engineering (B.S.C.E.), Computer Engineering (B.S.Cp.E.), Computer Science (B.S.), Construction Engineering (B.S.C.E.), Electrical Engineering (B.S.E.E.), Electrical Engineering Technology (B.S.E.E.T.), Engineering Technology (B.S.E.T.), Environmental Engineering (B.S.Env.E.), Industrial Engineering (B.S.I.E.), Information Systems Technology (B.S.), Information Technology (B.S.), and Mechanical Engineering (B.S.M.E.).

College of Health and Public Affairs

Bachelor of Arts (B.A.)

Majors: Communication Sciences and Disorders, Criminal Justice, Legal Studies, Public Administration

Bachelor of Science (B.S.)

Majors: Cardiopulmonary Sciences, Communication Sciences and Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Pre-Clinical Allied Health Track, Health Services Administration, Legal Studies, Public Administration, Radiologic Sciences

Bachelor of Social Work (B.S.W.)

Major: Social Work

College of Nursing

Bachelor of Science in Nursing (B.S.N.)

Major: Nursing

College of Sciences

Bachelor of Arts (B.A.)

Majors: Advertising/Public Relations, Anthropology, Interpersonal/Organizational Communication, Journalism, Political Science, Radio-Television, Social Sciences, Sociology

Bachelor of Science (B.S.)

Majors: Actuarial Science, Biology, Chemistry, Forensic Science, Mathematics, Physics, Psychology, Statistics

Rosen College of Hospitality Management

Bachelor of Science (B.S.)

Majors: Event Management, Hospitality Management, Restaurant and Foodservice Management

Office of Undergraduate Studies

Bachelor of Applied Science (B.A.S.) (Regional campuses only)

Office of the Vice Provost

Bachelor of Arts (B.A.)

Major: Interdisciplinary Studies

Bachelor of Science (B.S.)

Majors: Interdisciplinary Studies

Academic Degrees, Majors and Minors

Academic Minors by College

College Awarding Minor

Name of Minor

Burnett College of
Biomedical Sciences

Molecular Biology and
Microbiology

College of Arts and Humanities

African American Studies,
American Studies, Art History, Art
Studio, Asian Studies, Cognitive
Sciences, Community Arts, Dance,
Digital Media, English, Film -
Cinema Studies, French, German,
History, Humanities, Italian, Judaic
Studies, Latin American Area
Studies, Middle Eastern Studies,
Music, Philosophy, Philosophy,
Religion and Popular Culture,
Religious Studies, Spanish,
Theatre, Women's Studies

College of Business Administration

Accounting, Business
Administration (for non-
Business Administration majors),
Economics (for non-Business and
Business majors),
Entrepreneurship, Finance,
International Business,
Management Information Systems,
Marketing (for Business
and non-Business majors),
Operations Management/
Enterprise Systems, Real Estate
(for Business and non-Business
Majors), Sport Business
Management (for Business Majors
Only)

College of Education

Coaching, Early Childhood
Education, Exceptional Education,
Fitness Training, Recreation,
Technical Education and Industry
Training

College of Engineering
and Computer Science

Aerospace Studies, Computer
Science, Engineering
Leadership, Information
Technology, Interdisciplinary,
Interdisciplinary Informatics
Technology, Military Science,
Secure Computing and
Networks, Space Studies,
Intelligent Robotic Systems,
Technology and Society

College of Health and Public Affairs

Aging Studies, American
Humanics, American Sign
Language and Deaf Studies,
Communication Sciences and
Disorders, Criminal Justice,
Emergency Management and
Homeland Security, Health
Information Management, Health
Sciences, Health Services
Administration, Legal
Studies, Public Administration,
Urban and Regional Planning

College of Sciences

Anthropology, Anthropology in
Multicultural Studies, Astronomy,
Biology, Chemistry, European
Studies, International and Global
Studies, Interpersonal
Communication, Magazine
Journalism, Mass Communication,
Mathematics, North American
Indian Studies, Physics, Political
Science, Political Science/Prelaw,
Psychology, Social Sciences-
Interdisciplinary, Sociology,
Statistics

Rosen College of Hospitality
Management

Hospitality Management

Office of the Vice Provost

Environmental Studies
World Comparative Studies

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

Graduate Programs

See description at the beginning of each college section. For further information on a particular program or graduate fellowships, contact the departmental office in the respective college or see the *Graduate Catalog*; <http://www.graduate.ucf.edu/catalog/>.

BURNETT COLLEGE OF BIOMEDICAL SCIENCES



COLLEGES

Burnett College of Biomedical Sciences

Dean: P.E. Kolattukudy; BL136; 407-823-1312; Fax 407-823-0956

Associate Dean: Roseann White; HPA II 335J; 407-823-5932

The Burnett College of Biomedical Sciences houses the Department of Molecular Biology and Microbiology (including the Medical Laboratory Sciences program and the Office of Student Services and Advisement), the Biomedical Sciences Center, and the Pre-Health Professions Advisement Office.

The Burnett College of Biomedical Sciences became the 9th college in UCF on August 10, 2004, with the goal of building a nationally and internationally recognized biomedical research and education enterprise. The college has over 1,600 undergraduates and 80 graduate students who, along with faculty, conduct research to find novel treatments for cancer, cardiovascular diseases, neurodegenerative diseases and infectious diseases.

Programs and Degrees

Program

Molecular Biology and Microbiology
Biotechnology
Medical Laboratory Sciences
Biomedical Sciences

Degree

B.S., M.S., Minor
B.S.
B.S.
Ph.D.

Department of Molecular Biology and Microbiology

Chair: P.E. Kolattukudy; BL 136; 407-823-1312

Assistant Chair: Roseann White; HPA II 335J; 407-823-2914

Undergraduate Coordinator: Dorilyn Hitchcock; HPA II 335A; 407-823-5932

Graduate Coordinator: Karl Chai; BL 323; 407-823-6122

Faculty: E. Bossy-Wetzels; K. Chai; D. Chakrabarti; R. Chakrabarti; S. Chan; J. Cheng; A. Cole; H. Daniell; S. Ebert; C. Fernandez-Valle;

Burnett College of Biomedical Sciences

M. Fu; R. Gennaro; D. Hitchcock; K. Ireton; A. Khaled; P. Kolattukudy; G. Lopez; W. Lopez-Ojeda; Y. Lu; F. Morgan; M. Muller; S. Naser; W. Safraneck; M. Samsam; W. Self; K. Sugaya; S. Tatulian; K. Teter; J. Turkson; R. White; A. Zervos.

The Department of Molecular Biology and Microbiology offers a Bachelor of Science degree, a Master of Science degree and a Minor in Molecular Biology and Microbiology. The department also offers a Bachelor of Science degree in Medical Laboratory Sciences and a new Bachelor of Science degree in Biotechnology. The Molecular Biology and Microbiology programs prepare students for entry into any professional schools in health sciences, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry. The programs also prepare students entering the technical workforce in biotechnology, pharmaceutical and/or any other medical technology industry. The Department is a major partner in the interdisciplinary PhD program in Biomedical Sciences.

Program in Molecular Biology and Microbiology

The Core Curriculum in the baccalaureate program, with its broad and thorough background in the physical, computational, and life sciences, provides a solid foundation in concepts and applications of modern biology to contemporary and future problems. The Restricted Electives component of the baccalaureate program allows each student to enhance his/her academic preparation in areas of morphological, clinical, analytical or investigative applications. Students are also encouraged to gain research experience and exposure to specialized topics not taught in formal courses through the mechanism of directed research and independent study contracts with selected faculty. This thorough, but flexible, program provides an excellent preparation for industry, graduate education, and for the four-year health science professions (medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry).

Degrees: Molecular Biology and Microbiology (BS, MS)

Tracks: Molecular Biology and Microbiology
Preprofessional Track (BS)

Minors: Molecular Biology and Microbiology

Molecular Biology and Microbiology UCF/USF Accelerated Medical School Program (BS)

Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT score of 29. More information about the admission process can be found in the catalog under: *Burnett Honors College: UCF/USF Accelerated Medical School Program*.

Students desiring admission to USF College of Medicine [USFCOM] through the accelerated program will meet all USFCOM admission requirements and obtain a BS in Molecular Biology and Microbiology after completion of first year of the medical school curriculum.

Program in Biotechnology

Director: Henry Daniell, BL 336, 407-823-5932

To meet the demand for highly trained scientists in the biotechnology workforce, the Burnett College of Biomedical Sciences now offers a Bachelor of Science degree in Biotechnology. This new degree program prepares students to function in the industrial biotechnology/biomedical environment, providing them with more "hands on" laboratory experiences and opportunities for research. These students will be provided an industrial perspective and an understanding of product development at the same time as they are trained in the molecular techniques required for such development.

Degrees: Biotechnology (B.S.)

Tracks: None

Minors: None

Program in Medical Laboratory Sciences

Director: Dorilyn Hitchcock; HPA II 335A; 407-823-5932

Medical technologists may be involved in medical diagnosis, patient treatment, health screening, laboratory management, research, and laboratory education. They use highly sophisticated analytical equipment for the examination of blood and body fluids.

The curriculum is designed to give students a thorough background in the physical and biological sciences; to develop the necessary laboratory skills and skills essential to assume leadership roles in man-

agement and education; to develop a high level of proficiency in correlating clinical data.

The last two years of sequential courses constitute the upper division professional phase of the Program. The Medical Laboratory Sciences class size to be selected is determined by the availability of space and equipment, and available spaces in the clinical facilities.

The Medical Laboratory Sciences is a limited access program that requires a separate application to the program. Preference will be given to those who apply by March 1st but applications will be accepted until the class is filled.

The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAA-CLS-8410 Bryn Mawr Ave., Ste 670, Chicago, IL 60631) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

Degrees: Medical Laboratory Sciences (BS)

Tracks: None

Minors: None

Office of Student Services and Advisement (OSSA)

Academic Advisor: Cynthia Contreras; HPA II 335H; 407-823-5787;
Academic Advisor: Ana Maria Schwindt; HPA II 335G; 407-823-1259
E-mail: bcbsinfo@mail.ucf.edu

The Office of Student Services and Advisement (OSSA) is the primary office for undergraduate academic advisement in the Burnett College of Biomedical Sciences. OSSA assists Molecular Biology & Microbiology, Biotechnology, and Medical Laboratory Sciences students in orientation, registration, University policies and procedures, major requirements, course substitutions, and graduation certification. Students interested in pursuing Medical Laboratory Sciences **limited access** program, should meet with an advisor or the Program Director for more information.

Biomolecular Science Center

Director: P.E. Kolattukudy; BL 136; 407-823-1312

The mission of this university-wide interdisciplinary academic center is to establish vibrant research and training programs under the general theme, "Molecular and Genomic Bases of Diseases and Therapeutics." The Center research is focused in four areas: cancer, cardiovascular disease, infectious disease, and neurodegenerative disease.

The Biomolecular Science Center currently works with the Office of Research and the broader UCF research community to establish state-of-the-art research infrastructure and core facilities to support research in modern life sciences.

Within the next five years, the Center plans to establish at least 20 new faculty research teams in Biomedical Sciences within its theme area. Additional faculty will be hired in partnership with other academic units including the College of Optics and Photonics and the Nanoscience and Technology Center. Together with the existing faculty, this growth in life sciences is expected to create a critical mass of people conducting interdisciplinary research at the cutting edge in Biomedical Sciences that can have a significant impact on the biomedical technology industry of the region and the state.

The Biomedical Sciences PhD is a major vehicle for training. In addition, the center intends to help establish new degree programs in cooperation with other academic units to generate a skilled workforce that can serve the region and state's growing biomedical biotechnology industry.

Degrees: Biomedical Sciences (Ph.D.)

Tracks: None

Minors: None

Pre-Health Professions Advisement Office

Director: Genaro Lopez; HPA I 124; 407-823-2670

The Pre-Health Professions Advisement Office serves students university-wide in preparing for and seeking admission to professional health science schools, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry.

For more information regarding this office, please refer back to the "Academic Advising" section of this *Undergraduate Catalog*.



The Burnett Honors College

Dean: Alvin Wang; The Burnett Honors College;
407-823-2076, Fax 407-823-6583
<http://www.honors.ucf.edu>

Assistant Dean: Martin Dupuis

Director of Administrative Services: Donna Plaisted

Director of Computer Operations: Andrew Holloway

Director of Advising: Rex Roberts

Director of Student Affairs: Jill Norburn

Director of Student Development: Lisa Sklar

Director of Student Services: Madi Dogariu

Director of Research and Civic Engagement: Kelly Astro

Committed to diversity in both the composition of its student body and the programs that it supports, The Burnett Honors College (TBHC) at UCF provides a challenging and exciting educational experience to academically talented students.

TBHC combines the atmosphere of a small college with the intellectual stimulation of a large metropolitan research university. Honors students receive an education that prepares them to enter the best graduate and professional schools as well as pursuing distinguished careers.

Honors classes are small, and course work crosses traditional disciplinary boundaries to encourage critical thinking. Beyond the classroom, special guest lecturers, field trips, study abroad, research opportunities, and university-related service activities expand the horizons of Honors students.

Students in TBHC are actively involved in social activities and course programming. They also have priority registration privileges and access to the Honors Reading Room, Computer Lab, and Honors Housing.

Students may pursue Honors through two distinct programs, University Honors and Honors in the Major.

University Honors

Admission to University Honors is granted by TBHC to qualified incoming freshmen. Students who seek admission to University Honors must apply directly to TBHC. It is the student's responsibility to obtain the appropriate Honors College admissions information from the TBHC Office of Student Services and follow the procedures necessary to enter the program. Prospective Honors students and their parents are encouraged to contact Honors staff if they have questions.

Qualified students who transfer to UCF with an AA Degree with Honors from a Florida community college that has signed an Honors Articulation Agreement with TBHC will be admitted into University Honors with junior standing. Further information is available from the Honors Office of Student Services.

Students must maintain a minimum 3.2 UCF GPA and a minimum 3.0 GPA in Honors courses to remain in University Honors. In addition to meeting the GPA requirements, to graduate with University Honors the student must: 1) complete 12 hours of Honors lower-division course work¹; 2) complete the freshman Honors Symposium²; and 3) meet upper-division Honors course requirements determined by college or major³.

By the end of the second week of the term in which a student plans to graduate with University Honors, the student must file a completed "Intent to Graduate with University Honors" form with TBHC and complete an exit interview. A student who completes all of the requirements for University Honors will have the designation of "University Honors" entered on the diploma and transcript.

Summary Table of University

Honors Requirements

Symposium	Lower-division	Upper-division Major
2 hours	12 hours	See requirements by College ³

The current upper-division³ requirements are as follows:

■ University Honors Upper-Division Program Requirements: College of Arts and Humanities, College of Education, College of Sciences, Rosen College of Hospitality Management, and Medical Laboratory Sciences, Engineering Technology, Information Technology, and Interdisciplinary Studies majors

1. Complete one Honors Interdisciplinary Seminar³ (3 hrs)
2. Complete two Honors upper-division courses or Interdisciplinary Seminars³ (6 hrs)

■ University Honors Upper-Division Program Requirements: College of Business Administration

1. Complete one Honors Interdisciplinary Seminar³ (3 hrs)
2. Complete two Honors upper-division Business courses (8 hrs)
 - BUL 3130H Honors Legal and Ethical Envir't of Business 4 hrs
 - GEB 3356H Honors Introduction to International Business 4 hrs
 - MAR 3023H Honors Marketing 4 hrs
 - FIN 3403H Honors Business Finance 4 hrs
 - MAN 3025H Honors Management of Organizations 4 hrs
 - MAN 4720H Honors Strategic Management 4 hrs

Note: Please refer to the "UCF Courses and Descriptions" section of this Undergraduate Catalog for information on direct prerequisites for the above courses.

Consult an Honors advisor to find out when these courses are being offered.

■ University Honors Upper-Division Program Requirements: College of Engineering and Computer Science Excluding Computer Science, Information Technology and Engineering Technology

1. Complete one Honors Interdisciplinary Seminar³ outside the student's department of major (although it may be within the College of Engineering and Computer Science) (3 hrs)
2. Complete two Honors upper-division Engineering courses (6 hrs)
 - STA 3032H Probability and Statistics for Engineers 3 hrs
 - EGN 3310H Engineering Analysis-Statics 3 hrs
 - EGN 3321H Engineering Analysis-Dynamics 3 hrs
 - EGN 3373H Principles of Electrical Engineering 3 hrs
 - EEL 4818H Machine Learning I 3 hrs
 - EEL 4817H Machine Learning II 3 hrs
3. Complete the Honors Engineering Research Seminar (3 hrs)
 - EGN 4931H Honors Seminar-Research

Consult an Honors advisor to find out when these courses are being offered.

■ University Honors Upper-Division Program Requirements: Computer Science majors

1. Complete one Honors Interdisciplinary Seminar³ (3 hrs)
2. Complete two Honors upper-division Computer Science courses (6 hrs)
 - COP 3502H Computer Science I 3 hrs
 - COP 3503H Computer Science II 4 hrs
 - COT 3100H Introduction to Discrete Structures 3 hrs
 - ENC 3241H Writing for the Technical Professional 3 hrs

Consult an Honors advisor to find out when these courses are being offered.

■ University Honors Upper-Division Program Requirements: College of Health and Public Affairs (COHPA) excluding Nursing majors.

1. Complete one Honors Interdisciplinary Seminar³ outside major dept. (3 hrs)
2. Complete one Honors Interdisciplinary Seminar³ offered by COHPA (3 hrs)
3. Complete an additional Honors Interdisciplinary Seminar³ or three credit hours of independent study (3 hrs)

Consult an Honors advisor to find out when these courses are being offered.

■ University Honors Upper-Division Program Requirements: College of Nursing.

1. Complete one Honors Interdisciplinary Seminar³ (3 hrs)
2. Complete ZOO 3733H Honors Human Anatomy (3 hrs)
3. Complete PCB 3703H Honors Human Physiology (3 hrs)

Consult an Honors advisor to find out when these courses are being offered.

■ University Honors Upper-Division Program Requirements: Burnett College of Biomedical Sciences excluding Medical Laboratory Sciences majors.

1. Complete one Honors Interdisciplinary Seminar³ outside the major (3 hrs)
2. Complete two of the following Honors upper-division courses (7-9 hrs)
 - BSC 3404H Honors Quantitative Biological Methods 4 hrs
 - MCB 3020H Honors Microbiology 5 hrs
 - ZOO 3733H Honors Human Anatomy 4 hrs
 - PCB 3703H Honors Human Physiology 4 hrs
 - PCB 3733H Honors Molecular Biology II 3 hrs

Consult an Honors advisor to find out when these courses are being offered.

¹ When a student has an exceptionally high number of dual enrollment, Advanced Placement, CLEP, or other work that is credited toward GEP hours, he or she should consult an Honors advisor about fulfilling Honors lower-division course work requirements.

² Freshman Honors Symposium is a two credit hour course offered in the Fall semester of each year. This course includes guest lectures, video and film presentations, and live performances by guest artists. A field trip is included as part of the freshman Honors Symposium. Attendance at this series is mandatory for all students participating in University Honors. Freshman Honors Symposium also includes a Service Learning component.

³ An Honors Interdisciplinary Seminar normally is an upper-division offering intended for all majors. Most seminars are team-taught, and present cutting-edge topics. Enrollments are limited to 20 students.

Acceptable Waivers

Students may receive a waiver of credit for one upper-division Honors course upon completion of six or more hours of upper-division credit for the following programs: 1) University Study Abroad Program; 2) The Washington Center; and 3) Research Experiences for Undergraduates (REU) program. Students also may receive a waiver of credit for one upper-division Honors Seminar³ upon satisfactory completion of a graduate level course while taken as an undergraduate student. Students should obtain waivers from the Office of Honors Advising (BHC 107) prior to their participation in the above programs. Students may only receive one waiver of credit per career.

UCF/USF Accelerated Medical School Program for Students of The Burnett Honors College

http://www.honors.ucf.edu/usf_medschool.html

Eligible UCF freshmen who have been admitted to The Burnett Honors College and are interested in attending medical school have an opportunity to receive guaranteed admission to University of South Florida's College of Medicine and complete a medical degree in seven years (3+4). Students must apply for the program prior to their first semester at UCF. The first three years of study will be completed at UCF and the fourth year will be done in residence at USF as part of the first year of medical school, provided that students

continue to meet all the program requirements. UCF will confer a Bachelor's Degree following successful completion of the fourth year of study. USF will confer the Doctor of Medicine Degree at the successful completion of the program.

Students may elect to complete a fourth year at UCF, following the more traditional pattern of four years of undergraduate coursework prior to receiving the Baccalaureate Degree, and then enter the USF College of Medicine. Students selecting this option (4+4) must complete the same requirements as the accelerated (3+4) program, but also have the opportunity to take more advanced coursework and become involved in additional research activities. Students may elect to decelerate at any point prior to October 31 of the third year.

Transfer students are not eligible for this program.

Students applying for this accelerated program must select a major in one of the following fields in order to receive a Baccalaureate Degree from UCF:

- Molecular Biology and Microbiology
- Other majors are available using the 4 + 4 option

The Burnett Honors College will provide oversight of the student's progress in meeting Honors requirements and will coordinate overall completion of the first three years of the program. Students will receive advisement and schedule planning assistance each semester from a department advisor and the Pre-professional advisor.

Students attending the USF Medical School during their fourth year of matriculation (3 + 4 track) may transfer a maximum of 30 hours of course work taken at USF toward their UCF undergraduate degree. Such students fulfilling the accelerated 3 + 4 track will receive their BS degree from the University of Central Florida after successfully completing all UCF requirements and the requirements of the first year of medical education at USF.

The USF College of Medicine will provide oversight of the 4-year medical school curricular component of the program.

Eligibility Requirements

- Florida resident
- SAT score of 1300 or ACT of 29
- Unweighted high school GPA of 3.7
- Class rank (if available) top 10%
- Admission to The Burnett Honors College
- Completion of the Accelerated USF Medical School Application Form with one letter of recommendation following admission to The Burnett Honors College
- Submittal of two letters of recommendation from UCF faculty and successful USF College of Medicine interview in May at the completion of the first year
- Detailed program requirements can be found at http://www.honors.ucf.edu/usf_medschool_requirements.html

Honors in the Major

Application for admission to the Honors in the Major program will be made to TBHC following consultation by the student with the Department Chair or Honors in the Major Coordinator in the student's major department. This program is designed to encourage original and independent work by the student. Two copies of the thesis, project, or creative work will be placed in the University Library with another copy remaining in The Burnett Honors College Reading Room. An Honors in the Major Handbook outlining the procedures for completing this program is available in BHC 102 or online at <http://honors.ucf.edu/docs/HIM/himhandbook.pdf>.

Requirements for admission to Honors in the Major are: completion of at least 60 credit hours of college credit including at least 12 graded upper-division hours at the University of Central Florida; at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses regardless of institution. Students must also seek approvals by the department from which Honors in the Major is sought and from the Director of Research and Civic Engagement of TBHC.

Honors in the Major is awarded upon completion of an advanced Honors Thesis, and the completion of at least three but not more than six hours of Directed Readings course work as determined by the academic department; and at least three but not more than six hours of Honors Thesis or Project work taken in the college or department of major. Engineering majors must take EGN 4931H in lieu of Directed Readings and will write a thesis proposal as part of their coursework. HIM students in the College of Health and Public Affairs may take three credit hours of Honors Directed Readings or one COHPA Honors Interdisciplinary Course. Departments or colleges may set additional requirements for Honors in the Major to be completed.

The Honors Thesis is to be completed under the direction of a committee of three faculty members, one of whom is the project or thesis Chair. It is the student's responsibility to obtain an Honors in the Major Committee Chair who will undertake the responsibility of directing the Honors Directed Readings and Thesis and, in consultation with the student, form the Honors in the Major faculty committee. The Thesis Committee Chair and at least two committee members must be tenured or tenure-earning faculty. The student is responsible for filing an application with TBHC to begin Honors in the Major, which must be signed by the Thesis Committee Chair, the Honors Coordinator of the major department, and the Director of Research and Civic Engagement of TBHC. The student must receive a grade of at least "B" in all Honors in the Major course work to be awarded Honors in the Major.

The student must file an "Intent to Graduate with Honors in the Major" form with the TBHC Office of Research and Civic Engagement by the last day of classes of the semester preceding their anticipated graduation date. A student who completes all of the requirements for Honors in the Major, including maintaining at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses, will have the designation of "Honors in (subject area)" noted on the diploma and the University transcript. If you have any questions about these requirements, please contact TBHC at 407-823-6402 or honorsresearch@mail.ucf.edu

Student-Mentor Academic Research Teams

TBHC oversees the Student-Mentor Academic Research Teams (SMART) Program which is designed to assist sophomores and juniors identify and work with faculty mentors in a research area of shared interest. SMART is open to all UCF students with a minimum overall GPA of 3.2. A limited number of SMART grants are competitively awarded to students and faculty for fall, spring, or summer semester research. Students seeking more information about SMART should visit http://www.honors.ucf.edu/SMART_main.html

If you have any questions about SMART or the grants program, please contact the Office of Research and Civic Engagement in BHC 102 or by phone at 407-823-6402.

Office of Student Scholarship and Fellowship Advisement

The Office of Student Scholarship and Fellowship Advisement (OSSFA) serves all UCF students who are eligible to apply for prestigious scholarships such as the Rhodes, Truman, Gates, and Marshall. Because TBHC is UCF's campus representative for all prestigious scholarships, applicants for scholarships that require institutional nomination must contact OSSFA prior to the application process. Students seeking detailed information about prestigious scholarships and the application process should visit <http://www.ossfa.ucf.edu>. All students who are applying for a prestigious scholarship or fellowship are encouraged to contact the OSSFA office for assistance with their applications, even if the scholarship does not require institutional endorsement. Students seeking more information should contact OSSFA in BHC 103 or by phone at 407-823-0325 prior to the application process.



College of Arts and Humanities

Dean: Jose Fernandez; CAS 190; 407-823-2251;

Associate Dean: Lyman Brodie; CAS 190; 407-823-2251;

Associate Dean: Terry Frederick; CAS 190; 407-823-2251;

Associate Dean: Consuelo Stebbins; CAS 190; 407-823-2251;

Assistant Dean: Ke Francis; CAS 190; 407-823-2251

The College of Arts and Humanities includes the following departments: Art, English, Modern Languages & Literatures, History, Music, Philosophy, and Theatre. The College also houses programs in American Studies, Asian Studies, Judaic Studies, Latin American, Caribbean and Latino Studies, Women's Studies, Middle Eastern Studies and the School of Film and Digital Media.

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the areas of humanities and arts. The departments collectively offer more than 75 baccalaureate and graduate programs. For additional information concerning graduate programs, please refer to the *Graduate Catalog*.

In addition to providing academically strong degree programs in the areas noted above, the College of Arts and Humanities offers a selection of courses that are designed to complement the programs of the other colleges of the University. These offerings include a number of courses necessary to satisfy the University's General Education program.

A student enrolled in the College as an undergraduate must fulfill all University degree requirements including those for general education as well as the particular requirements set forth within each area of specialization. Computer proficiency is determined within the student's department of major. Depending on the program, evaluation may be via a written test, relevant projects, or specific exercises within a course or an entire course dealing with computers. To be certified for graduation, a student must achieve at least a "C" GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in each major course. Students are advised to consult their departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign

Language is not considered a foreign language and will not fulfill the requirement.

A student whose written or oral communication in any course is deemed unsatisfactory may be referred to the Dean by the instructor. Additional coursework or an individual study program, consistent with the needs of the student, may be assigned and must be completed before the degree is granted.

Preprofessional Programs

Prelaw Program

Prelaw Advisor: Jennifer Mundale; CNH 411L; 407-823-5076

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts background, regardless of major field. A Bachelor of Arts or Bachelor of Science degree with approximately three-fourths of the course work representing theory content is typically suggested. Majors such as English, History, Legal Studies, Philosophy, Sociology, and Political Science meet this criterion. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that the Law School Admission Test (LSAT) be taken prior to consideration for admission. General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-law Advisor.

Advisement of pre-law students will be provided in the area where a major is chosen. For example, a pre-law student who desires to emphasize the historical foundations should seek advisement in the Department of History; for emphasis in political science advisement should be sought in the Department of Political Science; emphasis in economics should be gained through advisement in Economics programs in the College of Business Administration; emphasis in Legal Studies can be pursued in the Departments of Criminal Justice and Legal Studies in the College of Health and Public Affairs.



Advisement

CAH Student Advising (CAHSA)

Director: Delia Garcia; CNH 202; 407-823-2492;

E-mail: cahsa@mail.ucf.edu

<http://www.cah.ucf.edu>

CAH Student Advising (CAHSA) is the primary office for undergraduate academic assistance in the College of Arts and Humanities. CAHSA assists students in the College with orientation, registration, graduation certification and with the interpretation of College/University policies and procedures. Questions concerning University and College academic policies affecting the College of Arts and Humanities majors should be directed to the CAHSA staff in CNH 202 or by calling 407-823-2492. Questions concerning the requirements within a major should be directed to the Department offering the degree. The student should contact the department early in his/her academic career and meet with his/her advisor for course planning every semester.

Program Planning

Although suggested curricula are available in most areas, students will plan their program in consultation with a faculty advisor appointed by the major department.

Area Studies Programs

Area Studies programs are multi-disciplinary programs that focus on specific regions or cultural groups. UCF has four area studies programs with an international focus: Asian; Judaic; Latin American, Caribbean, and Latino Studies; and Middle Eastern. Although the academic home of these programs is the College of Arts and Humanities, faculty and students from across the entire university may participate in them. These programs may be elected as minors by students majoring in any discipline within the university. For more information about the programs and contact numbers of the program directors see the list below.

Asian Studies - Contact: Patrick Murphy, 407-823-0989

Judaic Studies - Contact: Moshe Pelli; 407-823-5039

Latin American, Caribbean and Latino Studies - Contact:

José Maunez-Cuadra; 407-823-1173

Middle Eastern Studies - Contact: Husain Kassim; 407-823-2803

International Study Centers

Undergraduate Inter-institutional Transient Program

The State University System operates study centers in London, England and Florence, Italy during the Fall and Spring semesters. Students with 27 or more credit hours of credit and a minimum GPA of

2.5 or above in all state universities are eligible to apply for one or both semesters as inter-institutional transient students. Faculty at the centers are drawn from the nine state universities. While credits are earned through Florida State University, which administers the program on behalf of the State University System, credits are fully transferable within the System. Students at the Centers are considered to be resident in their home institutions for attendance and degree purposes.

Classes at the Florence Center emphasize art history, Italian, social sciences, and the humanities; at the London Center, theatre, business, English, history and the social sciences are emphasized. Field trips and museum visits are common to both. For further information, consult the Office of International Studies at 407-882-2300.

Programs, Tracks, and Degrees

Title	Degree
African-American Studies	Minor
American Studies	Minor
Animation	BFA
Art	BA, BFA, Minor, MFA
Asian Studies	Minor
Cinema Studies (Film)	BA, Minor
Community Arts - PAVE	Minor
Dance	Minor
Digital Media	BA, Certificate, Minor
English	BA, MA, Minor, MFA, Ph.D., Certificate
Film	BFA
Modern Language Combination	BA
French	BA, Minor
German	Minor
History	BA, MA, Accelerated MA, Minor
Humanities	BA, Minor
Italian	Minor
Jazz Studies	Certificate
Judaic Studies	Certificate, Minor
Latin American Area Studies	Minor
Middle Eastern Studies	Minor
Music	BA, BM, Minor
Music Education	BME

College of Arts and Humanities

Philosophy BA, Minor
Religious Studies BA, Minor
Spanish BA, MA, Minor
Teaching ESL MA
Theatre BA, BFA, MA, MFA, Minors in Dance, Theatre
Translation and Interpretation Certificate
Women's Studies Minor, Certificate

Departments and Programs

African-American Studies: Program

Program Director: JoAnne Stephenson; CNH 201G; 407-823-0026

<http://www.cah.ucf.edu/africanamericanstudies>

The College of Arts and Humanities offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from a multi-disciplinary perspective. The program is designed to enhance and complement the student's major area of study. The minor incorporates courses from many different disciplines including Music, Fine Arts, History, English, Foreign Languages, Political Science, Psychology, Sociology, Anthropology, Film, and Theater. The program's interdisciplinary approach emphasizes the artistic and intellectual traditions of African Americans, and is dedicated to developing expertise and knowledge of the black experience in the African Diaspora.

Degrees: None

Tracks: None

Minors: African-American Studies

American Studies: Program

Contact Consuelo Stebbins; CAS 190; 407-823-2292; Email: stebbins@mail.ucf.edu

The College of Arts and Humanities offers a minor in American Studies. This program requires students to select relevant electives from literature, humanities, social sciences and history.

Degrees: None

Tracks: None

Minors: American Studies

Asian Studies: Program

Contact: Patrick Murphy; CNH 302; 407-823-0989

An interdisciplinary minor designed to enhance multicultural education by offering students both an overview of Asian civilization and a detailed study of its most significant features. The focus of the program is on India, China, and Japan. Course work will include upper-level classes from the curricula of participating programs (anthropology, art history, economics, English, foreign languages, history, humanities, philosophy, political science).

Degrees: None

Tracks: None

Minors: Asian Studies

Department of Art

Chair: Mark Price; VAB 117; 407-823-2676; E-mail: art@ucf.edu
<http://reach.ucf.edu/~art>

Faculty: Abbas, Abraham, Burkhart, Burrell, Chavda, Cooper, Cutler, Francis, Gaudnek, Gonzalez, Hall, Haran, Haxton, Kim, Kovach, Lotz, Martin, Poindexter, Reedy, Rivers, Robinson, Spencer, M. Wyatt, Zaho

The faculty in the Department of Art teach studio arts, graphic design, and art history. The curriculum in Art provides professional preparation in art history, and in the studio concentrations of animation, ceramics, drawing, graphic design, painting, photography, printmaking, and sculpture. A Bachelor of Arts is offered in art history and both the Bachelor of Arts and the Bachelor of Fine Arts degrees are offered in the studio specializations. Competitive scholarships and awards are available to currently enrolled full-time UCF art majors through portfolio reviews by faculty. These awards are sponsored by UCF and the Altrusa Club of Winter Park.

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Degrees: Art (BA, BFA, MFA)

Tracks: Animation, Art History, Studio Art

Minors: Art History, Studio Art

Community Arts—PAVE: Program

Program Director: Kevin Haran; VAB 117; 407-823-2676

A minor in Community Arts—Partners in Art in Visual Education (PAVE) is offered for the student who is majoring in Art, Music, Theatre, or English.

Degrees: None

Tracks: None

Minors: Community Arts

Department of English

Chair: Thomas Krise; CNH 405; 407-823-1159;

E-mail: english@ucf.edu

<http://www.english.ucf.edu>

Faculty: Angley, Applen, Barnes, Bartkevicius, Bell, Bowdon, Bowie, Brain, Brodtkin, Campbell, Carpenter, Casmier-Paz, Cato, Dombrowski, Ethridge, Flammia, Giglio, Gomrad, Grajeda, Hemschemeyer, Hepner, Hohenleitner, Hubbard, A. Jones, D. Jones, Kamrath, Kesler, Kitalong, Krise, Lamazares, Leiby, Lillios, Lippincott, Logan, Marinara, Mauer, Meehan, Mohrenne, Morton, Murphy, Oliver, Owens, Pugh, Rodriguez-Milanes, Roney, Rushin, Saper, Schell, Schutz, Scott, Seidel, Smith, Spraker, Stap, Telep, Thaxton, Trouard, Wallace, Weaver, Young; *Professors Emeriti:* Adicks, Omans, Schiffhorst

The Department of English is responsible for the effective teaching of language and literature in English, including World Literature, Linguistics, rhetoric, and creative, expository, and technical writing. Students may concentrate in creative writing, technical writing, or literature. The Department serves the broad needs of the University with course offerings in writing and literature for students from other departments. The department has a Technical Documentation Writing Lab and also publishes *The Florida Review*, *The Cypress Dome*, and *The Faulkner Journal*. An Honors in English program provides an enriched course of study for exceptional students, leading to graduation with honors. Program description follows concentration degree plans.

Degrees: English (BA, MA), Creative Writing (MFA), Texts & Technology (Ph.D)

Tracks: Literature, Creative Writing, Technical Writing

Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

Film and Digital Media

Digital Media

Head of Digital Media: David Vickers; OTC5 500; 407-823-1733;

E-mail: digitalmedia@dm.ucf.edu

<http://www.dm.ucf.edu>

Faculty: Blue, Bowers, Cannon-Bowers, Croft, Deery, Ferrier, Frederick, Frome, Hadrika, Hughes, Kenny, Moshell, McDaniel, Peters, Salisbury, Schatz, Stapleton, Story, Sung, Theen, Underberg, Vick, Wirth; 407-823-6100

Digital Media is a four-year curriculum with areas of specialization in Visual Language and Digital Interactive Systems. Basic concepts in digital technology, story and performance are fundamental to the curriculum. Strong faculty interests in digital production and entertainment, serious games, Internet issues and the development of digital media presentations via various electronic capabilities.

Digital media partnerships with several companies in the area with internships, research activities and graduate work in game development.

Degrees: Digital Media (BA)

Tracks: Digital Interactive Systems and Visual Language

Minors: Minor, Certificate

Film

Head of Film: Steve Schlow; COM 121; 407-823-0694;

E-mail: film@ucf.edu

<http://www.film.ucf.edu>

Faculty: Blum, Congdon, Cook, Finch, Fluegel, Gerstein, Gula, Harris, Ingle, Johnson, Jones, Mills, Rohdie, Sandler, Schlow, Stoeckl, Yearwood

Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student's creative voice, appreciation and understanding of the medium. There are two programs: The BFA in production is a limited access program that stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of student work. Encompassing all aspects of filmmaking from conceptualization to distribution, this program prepares students to become effective independent filmmakers. Graduating seniors are required to complete a capstone film, script, or digital media project. Concentrations include: filmmaking, screenwriting, digital cinema. The Cinema Studies BA is a rigorous course of study in film theory, criticism and history that prepares the student for work in the industry or for Graduate Study. Community partners include: Universal Studios Florida, Panavision, Kodak, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the limited access BFA by submitting an application form and creative portfolio by December 15. Complete information on faculty, curriculum, and admission requirements is available on the department website. Because this is a limited access program, students should pay close attention to the program admission requirements and check with the Department or website frequently.

Degrees: Film (BFA) Cinema Studies (BA)
Minors: Film-Cinema Studies (BA)

Department of History

Chair: Edmund Kallina; CNH 505A; 407-823-5450;
E-mail: history@ucf.edu
<http://www.cah.ucf.edu/history/>

Faculty: Adams, Beiler, Cassanello, Clark, Crepeau, Downing, Farless, Fernandez, Foster, Garcia, Gordon, Greenhaw, Herlihy, Kallina, Larson, Lester, Lyons, Martinez-Fernandez, Sacher, Solonari, Walker, White, Zhang

History is the study of the past. Its objective is to understand the past, and through the past, to understand the present. The discipline of history is more than 2,500 years old and remains a vital body of knowledge in the 21st century.

Students who are interested in becoming a lawyer should seriously consider a major in history as a foundation for law school. Law is a historical phenomenon and part of the political, social, and economic processes that have contributed to the success of the United States. An understanding of history lends great insight to the function of, and motives behind the legal system. In addition, a careful study of history will enable the student to become effective in oral and written communication, while developing intellectual skills in critical thought and analysis, both of which are invaluable to the study of law.

The Department participates in the programs in Women's Studies, American Studies, African-American Studies, Asian Studies, and Latin American, Caribbean and Latino Studies.

Degrees: History (BA, MA, Accelerated MA)
Tracks: None
Minors: History

Judaic Studies: Program

Program Director: Professor Moshe Pelli; CNH 201;
407-823-5039 or 823-5129; E-mail: judaicst@ucf.edu
http://www.cah.ucf.edu/judaic_studies

Faculty: Hanson

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The program offers instruction, conducts research, and disseminates knowledge in the civilization of the Jewish people from Biblical times to the present day in the major dimensions of its creativity: literature, language, religion, philosophy, law, and social, political and economic organization. Because the roots of western culture and civilization and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Judaic Studies form an essential component of the university's curricula.

The program enables students to acquire a foundation of knowledge of Jewish history, the Hebrew language, Jewish philosophy, culture, religious beliefs, and political aspirations; and to understand the contribution of Judaism to western civilization. The courses highlight major aspects of Jewish civilization, focusing on its interaction with other cultures and on the bodies of human knowledge upon which it draws. The program is designed to serve students pursuing careers in

general or Jewish education, in communal works and Middle-Eastern affairs, in languages, humanities, or liberal arts, in the ministry or rabinate, and in the community at large.

Degrees: None
Tracks: None
Minors: Judaic Studies, Certificate

Latin American, Caribbean, and Latino Studies

Program Director: José Maunez-Cuadra; CNH 201; 407-823-1173;
E-mail: jmaunez@pegasus.cc.ucf.edu

The Latin American Area Studies Minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand Latin America, the Caribbean and Latinos in the United States. Students completing the minor will be prepared to apply their knowledge on the areas covered by the minor in a variety of careers including, but not limited to education, government, journalism, foreign service, social and community service, international trade, and public relations.

Degrees: None
Tracks: None
Minors: Latin American Area Studies

Middle Eastern Studies Program

Program Director: Husain Kassim; CNH 411J; 407-823-2803;
E-mail: kassim@mail.ucf.edu
Advisory Board Co-Chairs: John C. Bersia, Janan Smither;

An interdisciplinary minor designed to offer students both an overview of Middle Eastern civilization and a detailed study of its most important features. The focus of the program is on the religious, political, historical and social forces shaping the region. Course work will include classes from the curricula of participating programs (modern languages, history, humanities, Judaic studies, philosophy and political science).

Degrees: None
Tracks: None
Minors: Middle Eastern Studies

Department of Modern Languages and Literatures

Chair: Paul Giordano; CNH 523; 407-823-2472;
E-mail: foreignlanguages@ucf.edu
<http://www.cah.ucf.edu/forlang/>

Faculty: Barone, Burda, Colon, Decker, Fabery, Fanai, Fernandez, Ferri, Folse, Garcia, Giltner, Korosy, Lamboy, Leticee, Lopez, Ludwig, Mihai, Montalvo, Nalbone, Negy, Polgreen, Pomerleau, Prucha, Purmensky, Redmon, Rivera, Sipin, Spina, Stebbins, Taylor, Thompson, Triquet-Balak, Villanueva, Vitanova, Barsch (Professor Emeritus), Micarelli (Professor Emeritus)

The Department provides instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a Combination Major (two languages). The language combinations may consist of French, German, or Spanish as a first language, and any of these three, plus Italian, as a second language.

These programs are designed to meet the needs of students who desire competency in a language and expanded understanding of a foreign culture and literature. Students desiring to major in a foreign language must meet all the requirements for graduation as set forth by the University, the College of Arts and Humanities, and by the Department of Modern Languages and Literatures.

Degrees: French (BA), Spanish (BA, MA),
Modern Language Combination (BA), TESOL (MA)
Tracks: None
Minors: French, German, Italian, Spanish

Department of Music

Chair: Johnny Pherigo; CNH 205; 407-823-2879; Fax 407-823-3378;
E-mail: music@ucf.edu
<http://www.cah.ucf.edu/music/>

Faculty: Almeida, Batzner, Boukobza, Brodie, Brunner, Cardarelli, Garcia, Gay, Greenwood, Hill, Holcomb, Hunt, Koons, Macklem, Marosi, Moore, Montague, Palmer, Pickering, Potter, Rupert, Scharron, Stephenson, Thornton, Warfield, Weremchuk, Yonetani
Part-Time Faculty: Bagley, Hawkins, Hill, Hsu, Randall, Robertson, Titus

The Department of Music offers a Bachelor of Music degree with options in performance and composition; a Bachelor of Arts Degree in music; and a Bachelor of Music Education Degree with specializations in instrumental, choral and elementary school music. The Music Education programs are approved by the Florida State Department of Education. Students who desire to be certified to teach in elementary and secondary schools should major in Music Education. Courses leading to teacher certification are offered cooperatively with the College of Education. The Music Department is fully accredited by the National Association of Schools of Music. Music organizations on campus include Pi Kappa Lambda, Phi Mu Alpha, Sigma Alpha Iota, Tau Beta Sigma, Kappa Kappa Psi, Student Chapters of MENC and ACDA, and Music Student Advisory Council.

Degrees: Music (BA), Music Education (BME),
Music Performance (BM)
Tracks: Music Performance, Composition
Minors: Music

Department of Philosophy

Chair: Shaun Gallagher; Psychology Bldg. 220; 407-823-2273;
E-mail: philosophy@ucf.edu
<http://www.cah.ucf.edu/philosophy>

Faculty: Bates, Burris, Cash, Compson, Congdon, Coverston, DiBernardo, Evans, Fiore, Hawkins, Jaeger, Janz, Jones, Kassim, Mundale, Park, Schippert, Stanlick, Strawser, Vest

The Department of Philosophy offers a Philosophy major, a Religious Studies major, and a Humanities major, with a track in Philosophy, Religion, and Popular Culture as well as minors in Philosophy, Humanities, Religious Studies, and Cognitive Sciences. The Department requires all majors to receive advisement prior to registering each semester. Majors should schedule appointments with their departmental advisor. For any course used to satisfy a requirement (including electives) of the Philosophy major, the Humanities major, and Religious Studies, a grade of "C" or better must have been received.

Degrees: Philosophy (BA), Religious Studies (BA), Humanities (BA), Humanities - Philosophy, Religion and Popular Culture (BA)
Tracks: Regular and Honors
Minors: Cognitive Sciences; Humanities; Philosophy; Philosophy, Religion & Popular Culture; Religious Studies

Department of Theatre

Interim Chair: Diane Chase; UTC 111; 407-823-2862;
E-mail: theatre@ucf.edu
<http://theatre.ucf.edu>

Faculty: Alrutz, Becker, Boyd, Brotherton, Brown, Chicurel, Columbus, Flannery, Harris, Helsing, Huaixiang, Ingram, Lartonoix, Lee, Listengarten, McDonald, Niess, Rusnock, Scott, Seay, Shafer, Siegfried, Smith (Professor Emeritus), St. Claire, Stribling, Tollefson, Vernon, Weaver, Wood, Wootten, Wuehrmann

The Department of Theatre seeks to develop theatre artists of the highest quality by providing a select number of students with the

training, education, and experiences necessary for the successful pursuit of professional careers in theatre arts and the entertainment industries. In support of this mission and the liberal arts goals of the College of Arts and Humanities, the department seeks to provide its students with the knowledge and skills necessary to live full, rewarding and productive lives. Offering undergraduate Bachelor of Arts and the Bachelor of Fine Arts degrees, as well as graduate Masters of Arts and Master of Fine Arts degrees, the Department of Theatre undertakes to develop and graduate theatre artists who are sensitive, aware human beings. Through its public performance programs, the department endeavors to serve as a cultural resource for the University, the community and the central Florida region. Striving to provide its students with a competitive edge, the department employs a faculty and staff of artists/teachers who work intensely with students in the classroom and in production. To supplement this education and training, professional guest artists are brought to the campus to work in production and in the classroom. Before graduation, BFA students are required to complete a professional theatre internship and MFA students are required to complete a professional residency, thus providing them with a unique and invaluable introduction to the real world of professional theatre. Internships are optional for BA students. In all its endeavors, the Department of Theatre strives to create and maintain a professional environment necessary for the continued growth and development of its students, faculty, and staff.

Degrees: Theatre (BA, BFA, MA, MFA)
Tracks: Acting, Design and Technology, Stage Management, Musical Theatre, Theatre for Young Audiences, Theatre Studies
Minors: Dance, Theatre

Women's Studies: Program

Program Director: L. M. Logan; CNH 411; 407-823-6502;
E-mail: womenst@ucf.edu
<http://www.cah.ucf.edu/womensstudies>

Faculty: Oliver, Preston

The Women's Studies program offers an interdisciplinary minor and a certificate in Women's Studies in cooperation with several departments, programs, and schools. The program examines women's roles in and contributions to past and present societies, and provides practical and theoretical knowledge about women's and gender issues.

Degrees: BA (Interdisciplinary Studies)
Tracks: Women's Studies Track in Interdisciplinary Studies
Minors: Women's Studies, Certificate



COLLEGE OF BUSINESS ADMINISTRATION



College of Business Administration

Dean: Thomas L. Keon; BA 230; 407-823-2181

Associate Dean: Bradley M. Braun; BA 230L; 407-823-5094

Associate Dean: E. Taylor Ellis; BA2 101-W; 407-823-2187

Associate Dean: Jaishankar Ganesh; BA 240F; 407-823-2385

The College Mission Statement can be condensed into one sentence: The College of Business Administration advances the University's mission and goals in providing intellectual leadership through teaching, research, and service. The vision is to create within the College an environment that nurtures learning and exploration, provides opportunities for faculty to disseminate information, provides educational opportunities for students, businesses and the general public, and provides a platform for many and various forms of partnerships.

Nurturing Learning and Exploration: The College is a catalyst for students, faculty, and the general public to gain a better understanding of the various fields of business. Educational experiences inspire learning and encourage exploration.

Dissemination of Information: Students are encouraged through the learning process to gather information to be used by them in future business vocations. Both students and faculty are encour-

aged to pursue outlets to share "new" information within their fields and to business practitioners.

Provide Educational Opportunities: Degree seeking individuals are provided with curricula leading to baccalaureate, masters, and doctoral programs. The College is also committed to providing more opportunities with structured learning experiences that "certify" non-degree seeking individuals as having accomplished a minimum requirement for a selected career.

Provide a Platform for Partnerships: The College is engaged in specific areas of excellence that provide opportunities for learning, exploration, and sharing. These specific areas of excellence take the form of Centers and Institutes, and selected niche areas of College units.

All undergraduate and graduate programs are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Admission to the University of Central Florida **does not** imply admission to the College of Business Administration. Students will only be allowed to enroll in the 3000/4000 level courses taught by the College of Business Administration **after** they have been admitted to the College. Admission to the College will be granted **when** the following are complete:

College of Business Administration

- Completion of the University General Education program, or an AA degree from a Florida Public Community College, and a 2.0 GPA.
- Common Program Prerequisites with a 2.0 GPA and "C" or better in each class.

Students who otherwise meet the University admission requirements, such as entering freshmen and transfer students, will be placed in a major pending category until they meet the requirements set forth above. Only grades of "C" (2.0) or higher will transfer into the program. Each student should attend orientation for academic advising and should meet with an academic advisor in the College to outline a program of study. Courses taken at community colleges do not substitute for upper division courses. Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.

BE2010

UCF Business... the Best Undergraduate Business Education in Florida. In 1993 the UCF Business faculty established a goal to deliver the best undergraduate business education in Florida. The product of the alumni, faculty, business leaders, and students, the Business Education 2000 (BE2000) curriculum focused on four competencies that are integrated throughout all coursework: Teamwork, Communication, Creativity, and Adapting to Change. These four competencies were expanded in 2002 to include Ethics and Diversity and constitute the BE 2010 curriculum. Faculties, working with representatives from the business community, help you develop these competencies as you work through the following required courses in the Common Body of Knowledge:

GEB 3031	Cornerstone
GEB3356	Introduction to International Business
BUL 3130	Legal and Ethical Environments of Business
ECO 3411	Quantitative Business Tools II
FIN 3403	Business Finance
MAN 3025	Management of Organizations
ISM 3011	Essentials of Management Information Systems
MAR 3023	Marketing
MAN 4720	Strategic Management

Grade Point Average Requirements

For graduation the student must have maintained a minimum 2.0 GPA in course work taken in the College of Business Administration and a minimum 2.0 GPA in the course work required in the major, and a UCF minimum GPA of 2.0. In addition, all majors within the College of Business Administration also require a grade of "C" (2.0) or better in each course within the major.

Student Load

A student who is enrolled in 15 – 16 credit hours of course work is considered to be carrying a normal academic load. Students in the College of Business Administration desiring to take more than 17 credit hours in the Fall and Spring terms, and 14 credit hours in the Summer term must obtain permission from the College.

Community/Junior College Transfer Notes

1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida's community and junior colleges should complete the following common program prerequisites as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 2011), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023, (or QMB 2100) and CGS 2100. At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401 Business Quantitative Tools I. Students who have completed either MAC 2233 or STA 2023, but not both, must take ECO 3401. Completion of these courses will satisfy all prerequisite course requirements for all business and accounting degree programs and will ensure that a student will receive further consideration for admission.
2. Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF's Business program. Only grades of "C" (2.0) or higher transfer into the program.

3. Florida Public Community College students are advised to complete the Associate of Arts Degree including:
 - a. The general education requirements
 - b. All of the common program prerequisite courses.
4. Courses taken at community colleges do not substitute for upper division courses.
5. Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
6. Professional courses should not be taken at a community/junior college in the areas of Accounting, Economics, Management Information Systems, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year course areas in the College of Business Administration and cannot be satisfied with community/junior college courses.
7. A minimum of 12 credit hours must be completed at UCF within each individual major and 30 hours within the UCF College of Business.

Advisement

Undergraduate Student Services

Director: Helen Y. Hill; BA2 101; 407-823-2184

The Office of Undergraduate Student Services (USS) is the primary office for undergraduate assistance in the College of Business. Degree requirements, registration, and any questions concerning University and College academic policies affecting Business majors should be directed to the Office of Undergraduate Student Services staff in BA11 101 or by calling 407-823-2184. Visit USS's home page at: <http://www.bus.ucf.edu/uss/>.

Programs and Degrees

Title	Degree
Accounting	BSBA, MSA, MST
Business Administration	MBA, Ph.D.
Economics	BA, BSBA, MS, Ph.D.
Finance	BSBA
General Business	BSBA
Management Information Systems	BSBA, MS
Management	BSBA, MS HR
Marketing	BSBA
Business (Regional campuses only)	BABA

Departments and Programs

Kenneth G. Dixon School of Accounting

Director: R. Roberts, Director; BA 437; 407-823-2871

Assistant to Director: M. Hampton; BA 438; 407-823-5678

Faculty: Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kelliher, Klintworth, Lacy, Mahoney, Roberts, Roush, Savage, Smith, Vaughen, Veit, J. Welch

Mission Statement

The mission of the Kenneth G. Dixon School of Accounting is to provide high quality undergraduate, graduate, and professional educational programs responsive to the needs of students, community, and the profession. Teaching, research, and service are the means of accomplishing this mission. The School offers rigorous programs emphasizing communication skills, critical thinking, ethical practices, interpersonal skills, and technical competence preparing graduates for entrance into the accounting profession.

The School encourages intellectual contributions by faculty through instructional development, applied scholarship, and basic scholarship. The School provides service by participating in university governance, professional organizations, and professional educational programs. (Adopted by the faculty on March 4, 1993, and revised by the faculty on January 10, 1997.)

To prepare for any business career, a strong foundation in accounting and taxation will provide the variety of skills necessary to succeed in today's complex financial world. An accounting degree prepares students for entry into the fields of industrial, managerial or governmental accounting, with a strong potential for career advancement.

The objective of the baccalaureate program with a concentration in accounting is to provide basic conceptual accounting and business knowledge as a foundation for accounting career development. The undergraduate degree also is the first step toward becoming a

Certified Public Accountant, Certified Management Accountant and Certified Internal Auditor. The Kenneth G. Dixon School of Accounting also offers master's degrees in accounting and taxation. These programs complete the education required to become a CPA. A rigorous and comprehensive accounting curriculum at UCF focuses on the real-world challenges of accounting, emphasizing problem solving, information analysis and computer applications.

Distinctive Benefits

- Strong industry ties allowing for unique opportunities for placement and advancement.
- A competitive internship program that places graduate students in positions with major employers in the community.
- The opportunity to enroll in outstanding graduate programs in accounting and taxation.
- A very strong faculty known for their teaching excellence.
- Over a dozen scholarships available to advanced students.
- Active student organizations including the Student Accounting Society and Beta Alpha Psi.
- A faculty committed to the continuous improvement of the accounting and taxation programs.
- Outstanding pass rates on the CPA exam.

Degrees: Accounting (BSBA, MSA, MST)

Minors: Accounting

Department of Economics

Chair: W. Milon; BA2 305-D; 407-823-3266;

E-mail: economics@bus.ucf.edu

Faculty: Anton, Braun, Buhagiar, Caputo, Dickie, Elston, Euzent, Finnoff, Gerking, Gibbs, Hamilton, Harrison, Hofler, Hosni, Im, Martin, McHone, Mikhael, Milon, Moore, Pennington, Potter, Rungeling, Rutstrom, Scrogin, Soskin, Tramell, Underwood, White
Faculty Advisor: R. Pennington; BA2 303-B; 407-823-2640

Economic issues dominate today's news and public debates more than ever before. Inflation, unemployment, health care, economic growth, pollution, poverty, and international economic relations are a few of these issues. The primary strength of economics is that it provides a logical, ordered way of looking at most problems and issues. Undergraduate education in economics equips individuals to both better understand and seek solutions to these issues.

The Department of Economics participates in two undergraduate degree programs: a BSBA degree and a BA degree. The purpose of the BSBA Economics Program is to provide students with a professional business background that prepares them for careers in private business and government. The purpose of the economics BA Program is to provide a broad-based liberal arts background that can serve as a strong foundation for further graduate studies in law, social sciences, and other fields or as training for careers in politics, teaching, research, social service, and other areas. Both programs enable students to better understand the economic and non-economic issues that are confronted in their jobs and their private lives and to provide the analytical skills that will allow them to resolve them.

Distinctive Benefits

- Flexible Curriculum: Students tailor the program to their individual interests through a large selection of economics electives.
- International Perspective: Exposure to the global economy through the International economics electives (10), including Area Studies (Europe, Japan, China, Pacific Rim, and Mexico).
- Interdisciplinary Linkages: Economics links with many other disciplines allowing for double majoring in Finance, General Business, and Political Science.
- Teaching quality: Many of the Economics faculty have received Excellence in Teaching Awards.
- Opportunity for strong quantitative and analytical training.
- Student Organizations: The Economics Club is an active student organization linking students to Alumni.
- Excellent preparation for law school admission.

Degrees: Business Economics (BSBA, MS, Ph.D.)
Economics (BA)

Minors: Economics

Department of Finance

Chair: A. Byrd; BA 409; 407-823-3575

Faculty: Ajayi, Atkinson, Block, Borde, Byrd, Chen, Cheney, Choi, Dalrymple, Frye, Gilkeson, Gregg, McQuillen, Modani, Park, Ragozzino, Ramanlal, Scott, Schnitzlein, Singer, Smith, Weaver, Whyte

The program in finance is designed to provide the student with broad knowledge in finance, including business finance, investments, financial institutions, international finance, risk management and insurance, and real estate. The program provides the student with the theoretical background and tools of analysis required for making effective financial decisions. The study of finance prepares the student for careers in business financial management.

Distinctive Benefits

- Students prepare for career opportunities in business and corporate financial management, commercial banking, real estate, investment management and counseling, investment banking, mortgage banking, multinational business, insurance and government.
- Students who major in finance are sought by both financial and non-financial firms.
- The rapidly changing domestic and international economies need individuals who have the skills to make sound financial decisions.

Degrees: Finance (BSBA), Real Estate (BSBA)

Minors: International Business, Real Estate, Finance

Certificates: Banking, Commercial Real Estate, Investments, Real Estate Brokerage, Corporate Finance, Mortgage Brokerage, Real Estate Appraisal

General Business

Faculty Advisor: B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

Degrees: General Business (BSBA, MBA, Ph.D)

Minors: For non-Business majors

Department of Management

Chair: F. Jones; BA 335; 407-823-2679

Faculty: Ambrose, Arnaud, Barringer, Becker, Bogumil, Butcher, Callarman, Connell, C. Ford, R. Ford, Holland, Huseman, Keon, Migenes, McDonald, Putchinski, Quinn, Schminke, Sussan, Viggiano

Tomorrow's managers must be prepared to meet the challenges of a highly dynamic and rapidly changing business environment. The objective of the Management program is to prepare students for the excitement and opportunities that this presents. To learn about management, students study the processes and techniques of leadership, planning, controlling and staffing of both small and large organizations.

The curriculum is designed so that students can choose to concentrate in specialized areas of Entrepreneurship and Human Resource Management, or students can choose to major in General Management which allows them to take a broader variety of course work and prepares them for general management responsibilities.

The General Management major prepares students for a career that involves decision making responsibilities regardless of organization or assignment. The department goal is to emphasize the expertise, knowledge, and skills necessary to be not only a team player, but ideally a team leader. Whether the student is studying leadership, motivation, staffing, or international management, the curriculum will sharpen students' skills in problem identification, analysis, and solution. The major can lead to a variety of rewarding careers in management positions throughout the organization. The department offers more specialized training - using the same approach - via our Human Resource Management major. Career paths include positions in training and development, personnel and employee relations, equal opportunity and labor relations, human resource consulting, and more. For students interested in starting their own business or working for smaller fast growing organizations, the department offers specialized training via the Entrepreneurship Track.

Distinctive Benefits

- Excellent faculty, known for their creativity and enthusiasm in the classroom, and their commitment to students in and out of the classroom.
- A broad-based training that will open up opportunities in high-growth career areas.
- Internships that provide real-world experience and enhanced job opportunities.
- A "hands-on," applied focus in our courses.

Degrees: Management (BSBA), Human Resources (MS)

Tracks: General Management, Entrepreneurship,
Human Resource Management

Minor: Entrepreneurship

Department of Management Information Systems

Chair: P. Cheney; BA 308; 407-823-3106, Fax 407-823-2389

Faculty: Courtney, Goodman, Haynes, Hightower, Hornik, Jiang, Johnson, Leigh, McNamara, Porkh, Odisho, Saunders, Szymanski, Thienel, Tidwell, Van Slyke, West

Information systems form both the backbone and nervous system of virtually every business organization today. With the increasingly important role that information systems play in modern business organizations, the timing could not be better to enter this discipline. The objective of the Management Information Systems (MIS) program is to prepare students for exciting and challenging careers in the information systems arena.

MIS involves the study of how organizations use information and information technology to overcome problems or create opportunities. The MIS major prepares students to become problem solvers in a time when information is advertised as the "fourth factor of production," and in an era when government agencies report that one of ten information technology positions is unfilled.

The MIS major prepares students for such entry-level positions as system analysts, programmer-analysts, and database analysts by providing them with a thorough grounding in the principles of information system design and construction. The MIS curriculum includes coverage of computer programming, database design and implementation, networks and data communications, systems analysis, systems implementation, managerial decision making, and managerial aspects of organizational information systems. The strength of the major is its combination of technology skills with a thorough grounding in the principles of all the functional areas of business.

The MIS major is ideal for students who excel at solving problems and who can take responsibility for implementing their solutions in working organizational systems. Students in the program are trained to be comfortable shifting between the big picture and the detailed view of a problem and its solution. They also have their communication skills refined so that they are better able to communicate effectively as they discover the nature of the organizational problem (or opportunity), as they present their solutions, and as they manage the system implementation.

Successful MIS graduates have a variety of career options open to them, which lead to competitive salaries and travel opportunities. While many graduates join internal MIS staffs or consulting firms, there is a wide array of choices available to them. Graduates can choose between large and small companies, emerging or stable industries, and from among a multitude of career paths.

Distinctive Benefits

- Challenging field of study that rewards inquisitive students who are willing to work toward a goal.
- Student internship opportunities throughout the Central Florida region.
- An active student organization (MISA).
- Excellent job opportunities and starting salary prospects.
- Ability for graduates to apply and integrate all of the functional areas of business early in their professional careers.

Degrees: Management Information Systems (BSBA),
Master of Science, Management Information Systems (MS/MIS)

Minors: Management Information Systems, Operations
Management/Enterprise Systems

Department of Marketing

Chair: R. Michaels; BA2 307; 407-823-2108
<http://www.bus.ucf.edu/marketing/index.htm>

Faculty: Allen, Borrieci, Crowson, Das, Davis, Desiraju, Echambadi, Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott, Mayfield-Garcia, Michaels, Rubin, Sooder, Stock, Whang, Yoon

The Marketing major at UCF is called *Impact Marketing 2010*, or simply *IM2010*. It provides a superior education in the foundations of marketing such as research, customer behavior, professional selling, management, and strategy. A wide assortment of electives is designed to let each student round out his/her education according to specific career interests, whether that might be retailing, advertising, e-business, research, sales, sports marketing, healthcare, entertainment marketing or services. Internships are also readily available, and count as a marketing elective. Skills emphasized and developed throughout the curriculum are teamwork, communication, creativity, quantitative analysis, computing, problem solving, decision-making, thinking globally, and driving change.

A great benefit for Marketing majors is the opportunity to earn a certificate in any of seven areas of career interest: Selling and Sales Management, Retailing Management, E-Marketing, Sports Marketing Management, Healthcare Marketing, Entertainment Marketing and Services Marketing. Students can design a personalized certificate program combining elective courses with an internship that will enhance their value to potential employers.

The department offers an 18-hour minor in Marketing. This course of study provides a strong basic education in Marketing for business students with majors other than Marketing or students with majors from other colleges. Earning a minor in Marketing can add significant value and career flexibility for any student with any major.

Marketing is vitally important to all organizations and individuals, from global corporations to small businesses, from CEOs to the proprietors of small retail stores, from global manufacturing operations to a new dot com startup. Nearly one-third of the civilian work force in the United States is employed in jobs related to marketing. Marketing offers a variety of interesting and challenging career opportunities, such as professional selling, retailing, advertising, marketing research, sports marketing, distribution and logistics, purchasing, and e-business. In addition, students with marketing degrees may find excellent job prospects in international markets. Marketing career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government and social service agencies. Marketing also provides a strong career foundation for movement into top management positions.

Distinctive Benefits

- IM2010 program for Marketing majors recognized as one of the most innovative in the country.
- Seven certificate programs are available for Marketing majors.
- An 18-hour Marketing minor is available for students with other majors.
- Twenty-two dynamic faculty members are among the strongest teachers in the college.
- Comprehensive course offering each semester and summer -you can finish!
- Full-time faculty teach approximately 90% of undergraduate classes offered by the Department.
- Strong emphasis on preparing students for marketing management careers.
- Approximately 15 scholarships awarded annually on a competitive basis.
- Opportunities to participate in honors in the major, internships, independent projects, and directed studies.
- Opportunities to participate in national award-winning student chapters of the American Marketing Association and The Society for Marketing Professional Services (SMPS).

Degrees: Marketing (BSBA)

Tracks: Generalist, Sales

Minor: Marketing

Certificates: Selling and Sales Management, Retailing Management, e-Marketing, Sports Marketing, Healthcare Marketing, Services Marketing, Entertainment Marketing

For more information, visit <http://www.bus.ucf.edu/marketing/> or call 407-823-2108. Department office is located in BA 353.

COLLEGE OF EDUCATION



College of Education

Dean: Sandra L. Robinson; ED 308; 407-823-5529
<http://education.ucf.edu/>

Executive Associate Dean: Jennifer C. Platt; 407-823-2046

Associate Dean: B. Grant Hayes; 407-823-5391

Associate Dean: Rex Culp; 407-823-3906

The role of the College of Education at the undergraduate level is to provide a high-quality education for students in preparation for careers in early childhood, elementary, secondary, exceptional, physical, technical education, and sports and fitness professions. The College of Education is dedicated to preparing professional educators/reflective practitioners who meet the needs of our schools and society. UCF's College of Education is the #1 source of education baccalaureate degrees in the State of Florida.

Art Education
Early Childhood Education
Elementary Education
English Language Arts Education
Exceptional Student Education
Foreign Language Education
Mathematics Education
Physical Education
Science Education
Social Science Education
Sports and Fitness
Technical Education and Industry Training

Success to Significance

- America's 100 Best Colleges of Education 2005
- Invited to join the Carnegie Corporation of New York – Teachers for a New Era
- State and National Accreditation
- Proven and promising practices
- Partnerships with eleven Central Florida school districts
- High quality teacher education programs
- Leadership in reform efforts
- Strength of faculty and students
- Broad influence in higher education community
- Access to cutting edge educational technologies
- Opportunities to become involved in professional education organizations
- State-of-the-art facilities
- UCF Academy for Teaching, Learning and Leadership
- Toni Jennings Exceptional Education Institute
- Florida's Literacy and Reading Excellence Center (FLaRE)
- Lockheed Martin Academy for Mathematics and Science
- Progress Energy Leadership Institute
- Consortium for Social Responsibility and Character in Education
- Early and continuous field experiences
- Internships with highly qualified teachers
- Infusion of multicultural education, ESOL and technology throughout classes
- Majors in Early Childhood, Elementary, Exceptional and English Language Arts Education graduate with an ESOL Endorsement
- Majors in Elementary and Exceptional Education also graduate with a Reading Endorsement
- Graduates from state approved initial teacher preparation programs are eligible for professional teacher certification

Admission to the College of Education

Admission to the College will be granted when students meet the following requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA; a minimum 2.75 overall GPA is required for Early Childhood Education.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted). It is highly recommended students take and pass the GKT in the Spring Semester of their Sophomore year.
- Complete education program prerequisite courses with a minimum letter grade of "C-" (1.75) or better.

Transfer Notes:

Courses transferred from other institutions must be evaluated for equivalency credit. The student must provide all supporting information. Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Program Prerequisites sections of their intended major. Students are responsible for all ESOL assignments for UCF ESOL-infused courses that may be transferred from other institutions.

New students will:

1. Meet college advising representatives in a **group** setting during Orientation to:
 - a. Discuss College of Education admission requirements needed for enrollment in upper division education classes
 - b. Review degree program requirements
 - c. Understand expectations and responsibilities associated with a career in education
2. Be advised by the College of Education Office of Student Affairs (ED 110) if their major is Education Pending. An appointment is recommended (407) 823-3723.
3. Be assigned to a faculty advisor in the area of their major upon completion of College of Education admission requirements. The faculty advisor's name and telephone number appear on the SASS Degree Audit and in my.UCF.edu to assist students in making an advising appointment.
4. Purchase and utilize LiveText software at the beginning of the first semester of enrollment in the College of Education based on program requirements.

Continuing students will:

1. Set up an appointment with their faculty advisor **upon acceptance to their major**, or the Office of Student Affairs, if a "**Pending major**", to review academic progress and to develop an academic plan. Review this plan each term with an advisor prior to registration;
2. View a SASS Degree Audit through my.UCF.edu;
3. Register at scheduled appointment time in my.UCF.edu. Students must complete any changes to their schedules by the end of the published Add/Drop period;
4. Utilize LiveText software based upon program requirements; and
5. File an "Intent to Graduate Form" in the College of Education by the end of the term prior to the term in which graduation is intended.

Office of Student Affairs

Executive Director: Tina Smilie, ED 110, 407-823-3723

Located in the Education Complex in Suite 110, the Office of Student Affairs is dedicated to facilitating the success of students seeking advisement, assistance, and support in the College of Education. The Office of Student Affairs is composed of Clinical Experiences, Minority Programs in Education (MPIE), and Student Services.

Mission Statement

The mission of the College of Education Office of Student Affairs is to provide seamless services and resources to current and prospective students including recruitment, pre-advising, orientation, program advising, financial assistance, internships, graduation certification, and graduate education. To promote student success, we collaborate with and support College of Education faculty, administrators, and community partners.

Clinical Experiences

Director: Carolyn Walker Hopp; ED 110, 407-823-2436

<http://clinicalexperiences.education.ucf.edu>

Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of every degree program and consist of early field experiences as well as Internship I and Internship II. Placement of students is the responsibility of the College of Education.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be placed in internships and/or hired as a teacher. All school districts require fingerprinting prior to Internship I. Some school districts also require drug testing. All applications for internships are made through the office of Clinical Experiences.

Application deadlines for all Internships are as follow:

February 15 for Fall semester
September 15 for Spring semester

Admission to Internship I

Admission to Internship I will be granted to students who have been admitted to the College of Education and who meet the following additional requirements at the time of application.

- Have on file in the University admissions office passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted).
- It is highly recommended students take and pass the FTCE Professional Education Test before applying for Internship I.
- Possess minimum overall GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a "C-" (1.75)* or better in all prerequisite methods/specialization courses. However, a minimum overall GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Complete a formal application for Internship I online by deadlines listed above
- Meet any special departmental or program requirements
- Be recommended by the faculty of the department of the student's major

Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a university coordinator. Students are enrolled in a limited number of related professional courses during the experience.

Additional courses may be taken only with the consent of the academic program coordinator and department chair.

Admission to Internship II

Internship II is a 9-12 semester hour experience (depending on the program) normally completed during the student's last semester. Internship II, with the associated Internship II seminar when applicable, is considered a full-time experience. Students are permitted to enroll in other classes only with the consent of their academic program coordinator and department chair. Admission to Internship II will be granted when students have met the following requirements at the time of application.

- Successful completion of Internship I
- Have on file passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- It is highly recommended that students take and pass the FTCE Subject Area Exam before applying for the Internship II.
- Possess a minimum overall GPA of 2.5*
- Possess minimum professional preparation GPA of 2.5*
- Possess minimum specialization GPA of 2.5*



- Achieve a "C-" (1.75) or better in all prerequisite methods/specialization courses, and a minimum GPA of 2.5* is required in the professional preparation and specialization areas. However, a minimum overall GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Complete a formal application for Internship II by the published deadline
- Be recommended by the faculty of the department of the student's major
- Meet any special departmental or program requirements

Students must also have completed all methods courses and most of their specialization courses. Some programs require all specialization courses to be completed prior to Internship II. Students must also be approved for admission by the faculty in the department of the student's major. Internship II experience is completed locally.

*Some programs may specify a different GPA requirement for admission

Minority Programs in Education (MPIE)

Coordinator: Andrea Ramirez; ED 110; 407-823-0184
<http://mpie.education.ucf.edu>

Minority Programs in Education (MPIE) is designed to recruit and retain diverse students as they prepare for a career in education. MPIE provides future educators with financial assistance, academic support, and professional development. Each student admitted into the program is paired with a faculty mentor in the College.

Program Objectives

- Recruit and retain diverse students interested in careers in teaching
- Promote academic excellence and foster professional development
- Assist in job placement
- Encourage community involvement and commitment

Scholarship Requirements

Students must meet the following criteria:

- Eligible groups: African-American/Black, Asian-American/Pacific Islander, Hispanic, or American Indian/Alaskan Native

- Be a Florida Resident
- Be admitted into the UCF-College of Education as a degree-seeking undergraduate student
- Minimum semester and overall grade point average of 2.5
- Submit Scholarship Application
- Successful interview with the Scholarship Application Review Committee
- Submit two letters of recommendation and current resume
- Complete 40 hours of community service for each year the scholarship is received

Application deadlines:

July 1 for Fall semester
 November 15 for Spring semester

Student Services

Director: Andrea Withington, ED 110; 407-823-3723
<http://studentservices.education.ucf.edu/>

Student Services assists students with orientation, registration information, general academic advisement, college and University academic requirements and graduation certification. Education Pending majors are advised in Student Services. Students are assigned a fac-

College of Education

ultly advisor upon meeting College of Education admission requirements. Students are encouraged to make an early appointment with an academic advisor. Information regarding majors offered by the College of Education can be obtained in the Office of Student Affairs or at <http://www.studentservices.education.ucf.edu/>.

Admission to the University of Central Florida does not imply admission to the College of Education. Students will be allowed to enroll in 3000/4000 level courses taught by the College of Education **after they have been admitted to the College**. Admission includes having a minimum 2.5 overall GPA (2.75 for Early Childhood Education) and passing scores on the General Knowledge Test (GKT).

Graduation Requirements

To qualify for graduation, a student must successfully complete all coursework to include a minimum overall GPA of 2.5 (2.75 for Early Childhood Education majors), a minimum 2.5 GPA in all specialization courses, and a minimum 2.5 GPA in professional preparation courses. In addition, students in state-approved initial teacher preparation programs must pass all applicable sections of the Florida Teacher Certification Exam (FTCE) and complete a portfolio according to program guidelines.

Alternative Certification for Non-Degree Students

All students who have earned a Baccalaureate degree from an accredited institution and who desire to be certified in Elementary Education must complete an undergraduate or masters degree program in Elementary Education. For other certification areas for which the College has programs, students may elect to complete 1) an undergraduate degree 2) a graduate degree or 3) an alternative program as a post-baccalaureate student. Students must meet regular admission requirements for the College of Education and Teacher Education.

Department of Educational Studies

Chair: Karen L. Biraimah; ED 209-B; 407-823-2426

Assistant to the Chair: Muthoni Musangali; ED 206-E; 407-823-6579

Faculty: Allen, Alvarez, Becker, Bentley, Boote, Eriksson, Gill, Goodman, Hewitt, Hoffman, Holt, Hutchinson, Johnson, Kochan, Koger, Lue, Miller, Nadelson, Navarre, O'Malley, Owens, Piro, Short, Stewart

The Department of Educational Studies serves all students in the College of Education. The Department provides instruction in the core professional courses that address the competencies and skills needed by all undergraduate majors. These courses emphasize learning theory, teaching strategies, diversity, and the social, philosophical and historical foundations. The Department provides courses for all masters and doctoral programs in education, and coordinates the core courses for the Curriculum and Instruction Doctoral Program and the Graduate Certificate in Initial Teacher Professional Preparation. The Department houses the Specialist and Masters of Education in Curriculum and Instruction Programs, with M.Ed., M.A. and Graduate Certificate options in Gifted Education, Urban Education, and Multicultural and Global Education. Educational Studies graduate courses provide opportunities for students to advance their knowledge and skills related to multicultural, social, and psychological factors, curriculum and instructional theories, and the historical and philosophical factors that influence education.

Department of Child, Family, and Community Sciences

Chair: Anne McDonald Culp; ED 209-E; 407-823-2595

Assistant to the Chair: Roanne G. Brice; ED 206-H; 407-823-0664

Faculty: Albers, Blanes, Cross, Culp, Daire, Dieker, Edwards, Englehart, Ezell, Hagedorn, Hartle, Hayes, Hines, Hughes, Jennings, Jones, Kian, Klein-Ezell, Lambie, Levin, Little, Martin, Platt, Robinson, Smith, Szente, Taub, Thomas-Richmond, Wienke, Young

Undergraduate academic major programs leading to bachelor's degrees and certification are offered in Child, Family and Community Sciences. Students who major in Early Childhood Education are qualified to teach Pre-Kindergarten through grade 3 upon graduation and receipt of a Pre-Kindergarten through Primary Florida Teaching Certificate. (Pre-Kindergarten Exceptional Student Education is embedded in this certification). Students majoring in special education are certified K-12 in exceptional student education. Students are responsible for completion of program requirements and are encouraged to review their programs with an assigned advisor.

Several graduate level programs are available in the department:

A master's level program is available in Early Childhood Development and Education. A Master of Education program is available in Early Childhood Education for teachers already certified Pre-K - 3rd.

The Master of Education in Exceptional Education: Exceptional Student Education is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exceptional Student Education is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.

Master's level programs are available in Counselor Education with an emphasis on school counseling or mental health counseling. A Specialist Program is available in School Psychology. A graduate level certificate program is available in Sports Leadership. The Ph.D. in Education is available with 6 tracks.

Department of Teaching and Learning Principles

Chair: Michael Hynes; ED 209-D; 407-823-4836

Assistant to the Chair: Lawrence Mione, ED 206-C; 407-823-0523 and Brenda Thompson, ED 206-D; 407-823-1763

Faculty: Accardi, Andreasen, Baumbach, Blair, Blessing, Brewer, Buchoff, Cardullo, Circle, Cohn, Crawford, Diaz, Dixon, Duke, Ergle, Everett, Fisher, Frazee, Gerking, Gresham, Higginbotham, Hoffman, Hopkins, Jeanpierre, Joels, Kaplan, Kazoroski, Kehoe, Kelley, Kuminka, Lanier, Leopold, Mitchell, Ortiz, Palmer, Palumbo, Roberts, Romjue, Scharlach, Schulte, Seeley, Spalding, Stanley, Starzynski, Sweeney, Tinsley, Torbert, Valdes, Verkler, Waring, Wegmann, Whiteman, Wienke C., Williams K., Wilson, Zajac, Zygoris-Coe

Elementary/Middle Education

The Elementary Education program is designed for prospective teachers interested in the education of children, five through twelve years of age. Students who major in elementary education are qualified to teach grades kindergarten through six upon graduation and receipt of a Florida teaching certificate.

Secondary/Post Secondary Education and Training

Programs in this area are designed for prospective teachers/trainers interested in working with students in a specific academic or vocational area in middle/junior high school, high school, selected post-secondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, Sports and Fitness, and Technical Education and Industry Training. Graduate level programs are available in Art Education, Elementary Education, English Language Arts Education, Educational Media, K-8 Mathematics and Science Education, Mathematics Education, Physical Education, Science Education, Social Science Education, Reading Education and Vocational Education. The Ph.D. in Education is available with tracks in Mathematics Education and Elementary Education.

K-12 Education

Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. Specialization is available in Art, Foreign Language (French or Spanish), and Physical Education.

Department of Educational Research, Technology and Leadership

Chair: Conrad Katzenmeyer; ED 209-H; 407-823-4835

Assistant to the Chair: Michelle Spinella; ED 206-B; 407-823-0623

Faculty: Atkinson, Bai, Bozeman, Cintron, Gunter, Hahs-Vaughn, Hirumi, House, Lee, Murray, B., Murray, K., Orwig, Pawlas, Scheick, Sivo, Taylor, Tubbs, Wallace, Witta

The Department of Educational Research, Technology and Leadership provides graduate programs in the following areas: Educational Leadership, Research, Evaluation and Assessment, Technology, Higher Education and Policy Studies.



College of Engineering and Computer Science

Dean:

Neal C. Gallagher; HEC 114; 407-823-2156
<http://www.cecs.ucf.edu>

Executive Associate Dean:

Debra Reinhart; HEC 114; 407-823-2156

Associate Dean for Academic Affairs:

J. F. Nayfeh; ENGR 107; 407-823-2455

Assistant Dean for Distributed and Distance Learning:

Alfred Ducharme; ENGR 289; 407-823-5765

Director, Academic Support Services:

Melissa Dagley-Falls; ENGR 107; 407-823-2455

Director, College Honors Programs:

Mohamed Abdel-Aty; ENG2 301H; 407-823-5657

Interim Director, Minority Engineering & Computer Science Programs:

Bruce Furino; ENGR 281; 407-823-3466

Undergraduate Majors and Degrees

Aerospace Engineering

Civil Engineering

Computer Engineering

Computer Science

Construction Engineering

Electrical Engineering

Electrical Engineering Technology - Computer Systems Concentration

Electrical Engineering Technology - Electrical Systems Concentration

Electrical Engineering Technology - Photonics Concentration

Engineering Technology - Design Concentration

Engineering Technology - Operations Concentration

Engineering Technology - Space Systems Concentration

Environmental Engineering

Industrial Engineering

Information Systems Technology

Information Technology

Mechanical Engineering

BSAE

BSCE

BSCpE

BS

BSConE

BSEE

BSEET

BSEET

BSEET

BSET

BSET

BSEnvE

BSIE

BS

BS

BSME

College Vision

The College of Engineering and Computer Science (CECS) at the University of Central Florida will be recognized nationally and globally for undergraduate and graduate education, research and partnership. CECS will strive to become a top 50-ranked college within the next 5 years, and a top 25-ranked college within the next 10 years. CECS will achieve high standards in all aspects of education, research and technology application. These accomplishments will take place in a College dedicated to diversity, quality, resource expansion and partnerships throughout all of its operations and programs.

College Mission Statement

The CECS primary mission is to further the knowledge and practice of the engineering and computer science professions nationally and internationally by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, to prepare a diverse student body to be effective, contributing members of a technological society and life-long learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of humankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

College Core Values

- Honesty: Tell the truth and be aboveboard and candid.
- Integrity: Foster trust and be accountable for one's actions.
- Professionalism: Adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: Pursue life outside of the professional environment, giving family a priority.
- Altruism: Work as a team; help each other; and sacrifice for the common good. Understand that each individual's work is part of a larger purpose and plan.

College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate programs to provide graduate-like education for undergraduates.
- High quality graduate education to meet the needs of Florida and the U.S. and to achieve national and international prominence.

Accelerated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering, Engineering Technology, and the Information Technology Program are offering an Accelerated BS/MS degree program which will allow students of high academic standing to complete an MS degree at an accelerated pace. The generic rule for students in this program is that they will be allowed to use up to twelve hours of selected 5000 and 6000 level courses with a grade of "B" or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the program descriptions in the graduate and undergraduate catalogs. They may also contact the department Assistant Chair and/or Graduate Coordinator if they have any further questions.

College of Engineering and Computer Science

- A model for university outreach, globalization and partnerships
- A college with national and international visibility.
- An inclusive, open and supportive environment.

Students who seek a challenging technical career in research and development, design, technical sales, manufacturing, management, teaching, or other professions requiring a methodical, creative solution to problems should seriously consider pursuing an education in engineering, engineering technology, or computer science. The internationally-recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today's engineer, engineering technologist, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is also recognized as a valuable asset to those entering other professional pursuits such as the medical or law professions, architecture, education, the military professions, or even politics.

College Organization

The College of Engineering and Computer Science is organized into three major divisions: the Engineering and Computer Science Division, the Engineering Technology Division, and the Reserve Officer Training Corps (ROTC) Division. The Engineering and Computer Science Division is comprised of the School of Electrical Engineering and Computer Science (EECS) and three engineering departments: the Civil and Environmental Engineering (CEE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Electrical Engineering and Computer Science is comprised of the Computer Science Department, and Information Technology, and Electrical and Computer Engineering. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

All components of the Engineering and Computer Science Division, except Information Technology, also offer advanced studies leading to master's degrees and the Doctor of Philosophy degree; see the Graduate catalog for further information on these graduate programs. The undergraduate engineering programs in Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering are fully accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238. ABET is recognized by the U.S. Department of Education as the sole agency responsible for accreditation of educational programs leading to degrees in engineering, engineering technology, and related engineering areas. The Computer Science program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238.

The Engineering Technology Division and Department offers baccalaureate concentrations in Design, Operations and in Space Sciences, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems, Computer Systems, and in Photonics, all leading to the Bachelor of Science in Electrical Engineering Technology (BSEET) degree. Both the BSET and BSEET, with the exception of the new Photonics concentration, degrees are accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, FAX: (410) 625-2238. The Engineering Technology Department also offers a Bachelor of Science degree in Information Systems Technology (BS). This degree is designed for students who have completed 33 credit hours of lower level technical courses at a community college in the areas of networking, programming, information technology, computer science, computer engineering and technology or closely related disciplines.

The College houses the ROTC Division for those students desiring to pursue military training while earning their degree. The AFROTC program offers a minor in Aerospace Studies, and the AROTC program offers a minor in Military Science.

The Honors Program in the College of Engineering and Computer Science

The engineering and computer science leaders of tomorrow must not only have impeccable technical credentials, but must also be able to provide strong leadership within the general community in which they live. With this in mind, the Honors Program in the College of Engineering and Computer Science offers outstanding undergraduate engineering, engineering technology, and computer science majors an enriched educational, technical, professional and cultural experience that significantly augments the basic curricula. Honors students comprise academically superior students who commit, upon acceptance into the program, to do broad as well as advanced work in a chosen area.

The objective of the Honors Program is to provide exceptional students with an opportunity to express their creativity and problem-solving abilities through challenging coursework and participation in research projects. In addition, the program exposes students to a wide variety of issues dealing with the role of engineers and computer scientists and the impact of the profession on society. Honors students also participate in several programmed activities, such as lectures by distinguished scholars, engineers, and public figures, visits to local and regional industries and to governmental and military research facilities.

There are two programs available to eligible CECS students: 1) the University Honors Program (see the section on the University Honors Program found in The Burnett Honors College section of this catalog) and 2) the Honors in the Major Program (HIM).

The Honors in the Major Program

The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate under the guidance of a faculty member in his/her major. The Honors in the Major represents a total of six credit hours of work. These credit hours are acceptable as technical electives by all programs except for Electrical and Computer Engineering. Electrical and Computer Engineering students in the HIM program use the HIM credits in lieu of Senior Design I and II. These six credit hours consist of an Honors in the Major Seminar titled Research Methods in Engineering (EGN 4931H) (three credit hours), plus three credit hours of Undergraduate Honors Thesis (EGN 4970H).

The latter will result in an undergraduate thesis which will describe the research done by the student. The student will defend his/her thesis before a committee of faculty in the field as part of an oral examination covering the honors work. A sponsoring faculty member is required to supervise the undergraduate thesis.

In order to be admitted to the Honors in the Major program, the student must:

1. Have at least 60 credit hours, including at least 12 graded, upper division credit hours at UCF.
2. A minimum UCF GPA of at least 3.20 in all upper division courses.
3. A minimum GPA of 3.50 or more in the Engineering option courses.
4. A recommendation by a sponsoring faculty member. Exceptions to the eligibility criteria may be made by the College Honors Committee in individual cases, upon recommendation by a sponsoring faculty member.

To successfully complete the HIM program and receive said designation, the student must successfully defend the thesis and graduate with a minimum 3.5 GPA in the option courses, and minimum 3.2 GPA at UCF. No exceptions to this policy will be made for graduation. Successful candidates will be awarded an Honors in Engineering/Engineering Technology/Computer Science mention on the diploma and transcript, representing satisfactory completion of the program. Moreover, each department will award a limited number

of graduate scholarships (with tuition waivers) to those who apply for graduate school and have successfully completed this program.

Application for admission to the Honors in the Major Program must be made to the College of Engineering and Computer Science Honors Director, Niels Lobo (Computer Science), Harris Corp. Engineering Center, Room 252, or Mohamed Abdel-Aty, (Engineering) Engineering Building 2, room 301H. For more information about The Burnett Honors College programs, please visit their homepage at <http://www.honors.ucf.edu>.

The LEAD Scholars Program in the College of Engineering and Computer Science

Engineering, engineering technology, and computer science students may also participate in the LEAD (Leadership Enrichment and Academic Development) Scholars Program (see the section on the LEAD Scholar Program found elsewhere in this catalog).

Additional Information on UCF Baccalaureate Engineering, Engineering Technology, and Computer Science Programs

Information on each UCF engineering, engineering technology, computer science, and information technology program follows, and more current information can be found on the College home page at <http://www.cecs.ucf.edu>, and on the home pages of each department. For the home page associated with a particular program, see the listing for that department on the following pages of this catalog.

Department of Civil and Environmental Engineering

Interim Chair: A. Gonzalez; ENG2 211; 407-823-2841; Fax: 407-823-3315

Faculty: Abdel-Aty, Al-Deek, Catbas, Chang, Chopra, Cooper, Hagen, Khalafallah, Kuo, Mackie, Nnadi, Oloufa, Radwan, Randall, Reinhart, Taylor, Wanielista, Wayson, Yeh, Zhao

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSCE) and Environmental Engineering (BSEnVE).

The Civil Engineering Program

The Civil Engineering major is concerned primarily with fundamental civil engineering design and analysis in such areas as structures, geotechnical engineering, sanitary engineering, water resources, transportation engineering, and construction engineering. Civil Engineering students are required to take a minimum of two Project Design Courses, which synthesize various pre-requisite course offerings into a design project. Students in the Civil Engineering with Construction option are required to take two Project Design Courses (Construction Design Project and Geotechnical Engineering Design). These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission

The Civil Engineering Program Faculty strive to create a high quality learning experience for our students. The principal goals include:

1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Civil Engineering graduate education and research.

Program Objectives

Within the first several years following graduation, graduates should:

- Be successfully employed or employable in civil engineering practice in areas such as structural, geotechnical, transportation, construction, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure,

and service to the profession and society.

Educational Objectives

1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geotechnical, water resources, transportation, construction, surveying, and environmental.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The Environmental Engineering Program

The Environmental Engineering major is concerned primarily with the interactions with humans and their environment and the planning, design, and control of systems for environmental quality management for water, land, and air environments.

Environmental Engineering students are required to take a minimum of two Project Design Courses (out of four offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually "open-ended" and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission

The Environmental Engineering Program Faculty strive to create a high quality learning experience for our students. The principal goals include:

1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Environmental Engineering graduate education and research.

Program Objectives

Within the first several years following graduation, graduates should:

- Be successfully employed or employable in environmental engineering practice in areas such as solid waste, air pollution, water and wastewater treatment, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

Educational Objectives

1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Environmental Engineering such as solid waste, air pollution, water and wastewater treatment, and water resources.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The mission statement and objectives for the Civil Engineering and Environmental Engineering programs are electronically posted and continuously updated. More information on the Civil and

Environmental Engineering programs can be found on the CEE Department home page at <http://www.cee.ucf.edu>.

Department Policy for Double Major in Civil and Environmental Engineering

The faculty of the Civil and Environmental Engineering Department believe that a double major from our department should reflect a significant achievement of students, and therefore a significant increase in knowledge and formal coursework above the requirements for a single degree. Any undergraduate in Civil or Environmental Engineering desiring to obtain a double major disciplines shall meet the following requirements:

- the student shall meet all individual requirements for each degree
- the coursework must include two different capstone design courses, one from each program
- the student shall notify the Chair of his or her intent to pursue a double major by the start of the final academic year (3 semesters) of coursework, and shall have a "program of study" prepared and approved by the Chair
- completion of requirements for both the double major must be in the same semester.
- the same catalog year must be used for both majors

Additional notes:

- All students, by meeting the requirements for each degree, will be able to represent themselves as either a Civil Engineer or an Environmental Engineer or both.
- The double major program for a student must be approved by the Chair in the final year. This eliminates last-minute confusion by the student and allows the Chair time to review the technical elective, and the specific design courses being taken by each student.
- The extra hours represent at least one additional semester of full time enrollment, and represents the minimum requirements for the double major.
- The 16 hours of extra courses required for Civil Engineering majors would include all the required courses of Environmental Engineering: CHM 2046L, EES 4202C, EES 4111C, ENV 4120, ENV 4341, and a Biological or Earth Science, whichever course was not taken to satisfy the GEP.
- The 18 hours of extra courses required for Environmental majors includes all the required courses of Civil Engineering, namely: SUR 2101C, CES 4100C, CEG 4101C, TTE 4004, and either CES 4605 or CES 4702.
- The double major will be so indicated on one diploma. If a student desires two separate diplomas, a B.S.C.E. and a B.S.Env.E, this is permitted for students who have a minimum of 150 credit hours.

School of Electrical Engineering and Computer Science

Director: Issa Batarseh; HEC 437; 407-823-2750

Faculty: Bassiouni, Batarseh, Bauer, Behal, Behdad, Berrios, Boloni, Chatterjee, Cheng, Demara, Deo, Dutton, Foroosh, Gallagher, Georgiopoulos, Gomez, Gong, A. Gonzalez, Guha, Haralambous, Heinrich, Hua, Hughes, Jones, Kasparis, Klee, Kocak, Lang, Lee, Liou, Llewellyn, Lobo, Malocha, Marinescu, Mikhael, Mukherjee, Orooji, Pattanaik, Petrasko, R. Phillips, Qu, Richie, Rolland, Shah, Shen, Stanley, Sundaram, Tappen, Turgut, Wahid, Wang, Weeks, Wei, Wocjan, Workman, A. Wu, T. Wu, Yuan, Zhou, Zou

The Computer Science Program

The Computer Science program offers courses and programs leading to Bachelor of Science, Master of Science (see Graduate Catalog), and Doctor of Philosophy (see Graduate Catalog) degrees in Computer Science. In addition, the program offers minors in Computer Science, Applied Computer Science, and Computer Information Technology.

The program strives to meet the requirements for professional careers and research in software development and computing systems technology by producing graduates with a broad base of formal course work. Students may use required elective credit to concentrate their degree in one of many research areas, including computational biotechnology, computational complexity, computational geometry, computer architecture, computer graphics, computer networks,

computer simulation, computer vision, databases systems, design and analysis of algorithms, distributed computing, digital media, evolutionary computing, graph theory, machine learning, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, software engineering and VLSI design tools and hardware algorithms.

Research facilities are organized around laboratories directed by faculty members. Facilities in these laboratories change rapidly and are generally funded through external research grants, supplemented by grant matching and startup funds from SCS. To learn about the current status of research facilities and projects, visit faculty web pages. These may be found by following links from the computer science home page at <http://www.cs.ucf.edu/>.

Mission

The mission of the Computer Science program is to educate majors in the principles and practices of computer science, preparing them for graduate school, for careers in software development and computing technology, and for a lifetime of learning.

Objectives

1. CS majors should be practiced in the design and analysis of algorithms using mathematical and statistical methods and techniques.
2. CS majors should be proficient in the use of modern and widely-used programming languages.
3. CS majors should be practiced in abstract reasoning and modeling of complex real-world systems.
4. CS majors should be practiced in oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing technology and applications.
5. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
6. CS majors should be highly competitive in securing entry-level positions in software and computer system development industries.
7. The top fifteen percent (15%) of all graduating CS majors shall be qualified and prepared for pursuing graduate studies in the top tier graduate schools in Computer Science.

The Information Technology Program

The Information Technology program offers courses leading to the Bachelor of Science degree in Information Technology. Information Technology encompasses computer hardware, software, peripheral devices and their use in communication networks and information systems. IT-related disciplines include database engineering, network engineering, performance planning, system security, digital media design, and web server design. The program provides students a strong conceptual core, which will prepare them to be lifelong learners, along with significant hands-on experience. The inclusion of advanced courses in technical writing, a course in ethics, and five upper division courses in an area outside information technology will prepare these students to deal with the subject areas and communicate in the parlance of the industries in which they choose to work. Basically, students will have an interdisciplinary core in which the principles and practices of the three disciplines of the School are presented in a cohesive, connected manner. They will then create their own multidisciplinary component by taking upper division courses that are typically outside the College of Engineering and Computer Science.

Mission

The mission of the Bachelor of Science in Information Technology Degree Program is to educate students in the science and practices of information technology, preparing them for a lifetime of learning and for careers in information technology as well as in a wide variety of disciplines that integrate information technology into their respective fields of activity.

Objectives

1. Graduates will learn the principles and practices of information technology, along with the mathematical and engineering foundations of this discipline.
2. Graduates will obtain the skills to solve complex problems via the development of models, and the design, implementation, and analysis of computer realizations of these models.
3. Graduates will receive an education that enables them to design, implement, and administer complex distributed information systems, including the archival databases and the communication

infrastructures associated with such systems.

4. Graduates have the opportunity to obtain a strong background in at least one discipline, outside information technology, in which information technology plays a critical role.
5. Graduates will be prepared for successful careers in information technology. This preparation will include the abilities to work in teams, to communicate effectively, and to experience a lifetime of learning.

Electrical and Computer Engineering Programs

The Electrical and Computer Engineering programs offer baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BSCpE). Graduate degrees leading to the Master of Science in Engineering (M.S.E.) and Doctor of Philosophy (Ph.D.) are also offered.

The curriculum provides an integrated experience including humanities and social sciences, mathematics and basic sciences, engineering core, computing, and design experience. The laboratory experiences appropriately combine theory and practice in the Electrical and Computer Engineering programs through a logical progression of courses. Design experiences start with the first circuits course, EEL 3004, and progress to the senior design capstone courses. This senior design experience is a two-semester sequence totaling six credit hours. Aspects of engineering economics, administration, oral presentation, professional issues such as ethics, safety and environmental impact are also covered in the design courses. The design projects required in the design course sequence address real-life problems, and the students work in a team setting. Also, several projects are developed jointly with our industrial partners.

The Computer Engineering Program

The Computer Engineering program contains a minimum of 24 credit hours of design experience, which includes courses listed as Computer Systems Design I and II (EEL 4767C and EEL 4768C), Engineering Applications of Computer Methods (EEL 4832), Engineering Data Structures (EEL 4851C), and Introduction to Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experiences in specialty areas such as computer architecture, intelligent systems, networking, software engineering, and simulation systems.

Mission

The mission of the Bachelor of Science in Computer Engineering Degree Program is to educate students to become highly skilled in the principles and practices of computer engineering and develop computer engineers that meet market needs.

Objectives

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in computer engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the computer engineering discipline, including the ability to design systems and processes, conduct and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The Electrical Engineering Program

The Electrical Engineering program contains a minimum of 18 credit hours of design experience. This is achieved through such courses as Linear Control Systems (EEL 3657), Electronics I and II (EEL 3307C and EEL 4309C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Computer Systems Design I (EEL 4767C), Networks and Systems (EEL 3123C) and Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experience leading to work in communications, controls, image and signal processing, microelectronics and solid state devices, microwaves and electromagnetics, optical engineering, and power/power electronics.

Mission

The mission of the Bachelor of Science in Electrical Engineering Degree Program is to educate students to become highly skilled in the principles and practices of electrical engineering and develop

electrical engineers that meet market needs.

Objectives

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in electrical engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the electrical engineering discipline, including the ability to design systems and process, conduct, and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The mission statement and objectives for the Computer Engineering and Electrical Engineering programs are electronically posted and continuously updated. More information on the Computer and Electrical Engineering programs can be found on the home page at <http://www.ece.ucf.edu>.

School of Electrical Engineering and Computer Science Policies and Procedures

The School's web site (<http://www.eecs.ucf.edu>) is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ's) concerning academic advisement, student professional societies, undergraduate research opportunities, and means to effectively communicate concerns (comments, suggestions, complaints). We ask that you visit this site and follow its guidelines before you send e-mail and letters, or make phone calls to faculty members and administrators.

Department of Industrial Engineering and Management Systems

Interim Chair: Christian Bauer, Jr; ENG2 312; 407-823-2204; Fax 407-823-3413

Faculty: Armacost, Calabrese, Chandra, Crumpton-Young, Elshennawy, Geiger, Hoekstra, Hosni, Kotnour, Lee, Malone, McCauley-Bell, Mollaghasemi, Mullens, Nazzal, Pet-Armacost, Proctor, Rabelo, Rahal, Reilly, Sepulveda, Stanney, Tang, Wang, Whitehouse, Williams

Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner and with the highest possible quality. In doing so, the industrial engineer deals with decisions regarding the utilization of people, materials, machines, and automation (including robotics). Industrial engineers are also skilled in Engineering Economic Analysis and Information Management since they are generally considered to be the natural interface between the technical specialist and management.

Industrial Engineers are generally sought in industry, service, and government organizations. In the industrial sector, the industrial engineer is concerned with improving productivity and quality of the manufacturing, distribution, and management system of organizations. In the service sector, the industrial engineer is concerned with determining the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service for their tax dollars.

The Industrial Engineering approach is characterized by a systematic evaluation of alternatives using quantitative analysis, and computer simulations. As such, quantification and measurement play a key role in the day to day activities of the industrial engineer.

Engineering design experiences are incorporated into many of the required industrial engineering core courses. For instance, students learn how to apply the principles of engineering design to production systems and cost estimation in EIN 3354, to work methods and process flows in EIN 3314, and to facilities design and plant layout in EIN 4364. The design experience concludes with a real-world sys-

tem design in the two-semester capstone design sequence, EIN 4516 and EIN 4891.

Mission

To produce industrial engineering professionals and leaders who, working alongside their coworkers, can design and improve operations in industry, business, and government, making them more productive, more responsive, and producing goods and services of higher value to the customer for the global economy of the 21st century.

Objectives

1. BSIE graduates will demonstrate knowledge of math, science, and engineering fundamentals. Specifically, the student will have the ability to:
 - Demonstrate general design principles.
 - Use fundamental engineering techniques, skills, and tools for engineering practice.
 - Analyze and interpret data to produce meaningful conclusions and recommendations.
2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:
 - Design systems, components, and processes to meet desired needs.
 - Identify, formulate, and solve industrial engineering problems.
 - Use industrial engineering techniques, skills, and tools for engineering practice.
 - Be a productive member of multi-disciplinary teams.
 - Communicate effectively in both written and spoken presentations.
 - Incorporate contemporary issues into the practice of industrial engineering, including global communication.
 - Have the knowledge to become a Professional Engineer (PE) in the IE discipline.
3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:
 - Make decisions in light of professional and ethical responsibilities.
 - Understand the impact of engineering solutions in a global and societal context.
 - Understand contemporary issues in the practice of industrial engineering.
 - Engage in life-long learning.
4. BSIE graduates seeking professional employment or admission to graduate education programs will be successful in doing so within six months of graduation.
5. IEMS students will receive relevant curriculum content in a learning environment that facilitates learning and retention.

The mission statement and objectives for the Industrial Engineering programs are electronically posted and continuously updated. More information on the Industrial Engineering program can be found on the Industrial Engineering Department home page at <http://www.iems.ucf.edu>.

Department of Mechanical, Materials, and Aerospace Engineering

Chair: Ranganathan Kumar; ENGR 307; 407-823-2416;
Fax 407-823-0208

Faculty: An, Bishop, Brandenburg, Q. Chen, R. Chen, Chew, Cho, Chow, Coffey, Fang, Fenton, Gordon, Ilegbusi, Johnson, Kalita, Kapat, Kassab, Klemenz, Leonessa, Lin, Minardi, Mosleh, Nayfeh, Nicholson, Orlovskaya, Peterson, Seal, Sohn, Suryanarayana, Vaidyanathan

The Department of Mechanical, Materials, and Aerospace Engineering offers undergraduate degree programs in Mechanical Engineering and Aerospace Engineering. The Aerospace Engineering program is designed to provide a broadly-based foundation in aeronautics and astronautics, including topics such as aerodynamics, propulsion, aerospace structures and materials, flight dynamics, and control and performance.

The Mechanical Engineering program is designed to provide a broadly-based foundation in thermo-fluids, mechanical systems and

materials, including topics such as solid mechanics, machine design, vibrations, CAD/CAM/FEM, feedback control and mechatronics, fluid mechanics, heat transfer, and structure and properties of materials.

Both programs seek to convey an understanding of the fundamental principles of science and engineering, to stimulate curiosity and creativity, to provide hands-on experience in laboratories, and to prepare students to design systems which solve current and relevant societal problems. The design experience begins in the freshman engineering courses and grows throughout the curricula with increased emphasis on student creativity, open-ended problems, materials selection, design methodology, feasibility considerations, alternative solutions, and concurrent design, and culminates in the senior capstone design courses. The use of computers and written and oral communication are part of the design experiences throughout the programs.

Mission: Aerospace Engineering

In support of the University and College missions, the Aerospace Engineering program at UCF is committed to provide the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Aerospace Engineering Program Educational Objectives and Outcomes

Career Preparation: The program prepares graduates for employment as engineers in aerospace or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize aeronautical systems or space systems, and will have a command of corresponding engineering principles. Among the obvious career opportunities are the design and development of aircraft, missiles, and spacecraft systems. Aerospace technologies are also important and applicable to power applications such as turbomachinery. Also, many environmental problems associated with wind effects on buildings, structures, etc., are appropriate to the methods and technology of aerospace engineering.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in aerospace technology, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate aerospace engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Mission: Mechanical Engineering

In support of the University and College missions, the Mechanical Engineering program at UCF is committed to provide the highest quality engineering professionals and leaders. Through cooperative efforts with regional industry, our graduates will be well prepared for their role as mechanical engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Engineering Program Educational Outcomes and Objectives

Career Preparation: The program prepares graduates for employment as engineers in mechanical or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize mechanical systems, energy systems, or materials, and will have a command of corresponding engineering principles. Among the career opportunities are power generation, mobility engineering, manufacturing, nuclear applications, from zipper to space shuttle.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in mechanical technologies, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Department of Engineering Technology

Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746
Program Coordinator BSET Programs: L. Morse; ENGR 207: 407-823-4742

Program Coordinator: BSEET Programs: A. Rahrooh; ENGR 207; 407-823-4749

Program Coordinator Information Systems Technology: B. Motlagh; ENGR 207; 407-823-4748

Faculty: Ali, Burroughs, Coowar, Craiger, Divo, Ducharme, Mehrabian, Misconi, Morse, Motlagh, Osborne, Rahrooh, Shepard

Mission

The mission of the Engineering Technology program is to educate students to become professional technologists who meet the current needs of industry.

Bachelor of Science in Electrical Engineering Technology (BSEET)

This program in electrical engineering technology, leading to the BSEET degree, provides a structured curriculum with instruction in fundamentals and engineering principles applicable toward working with both present and future technologies in a variety of work environments. Graduates may find employment opportunities in such diverse fields as aerospace, instrumentation, computers, communications, consumer products, banking and education. They may become involved in applied design, product development, manufacturing, quality assurance, production and operations as well as activities such as field engineering, sales, system analysis, technical writing and software design, preparation and programming.

The EET program provides three paths of concentration, thereby providing the student a choice between either a hardware or a software emphasis. The concentration in Electrical systems provides a broad based curriculum in electrical/electronic engineering principles, and their application. Instruction and problem solving experiences are provided in both circuit and system aspects including computers, communications, controls and electrical power. The concentration in Computer Systems, while providing a firm foundation in electrical/electronics technology, also includes extensive instruction in programming, system design and analysis, and systems programming. Projects in solving real-world problems are required of all students in this concentration. The concentration in Photonics provides a background in optics, lasers, electrical systems, and the use and theory of light. It is designed to provide the necessary education for a career in the photonics industry.

Program Educational Objectives:

1. Students will demonstrate a broad knowledge of electrical/electronics, engineering technology practices to support design, application, installation, manufacturing, operation, and maintenance as required by their employer.
2. Students will be able to apply basic mathematical and scientific principles for technical problem solving in areas which include circuit analysis of both analog and digital electronics, microprocessors ...
3. Students will be able to utilize computers and software in a technical environment
4. Students will demonstrate competence in written and oral communications
5. Students will be able to work effectively as an individual and as a member of a multidisciplinary team
6. Students will be able to show awareness of social concerns and professional responsibilities in the workplace and

7. Continue their professional training and adapt to changes in the workplace through additional formal and informal education

EET Program Outcomes:

Graduates should be able to:

1. Apply basic knowledge in electronics, electrical circuit analysis, electrical machine, microprocessors, and programmable logic controllers.
2. Conduct experiments, and then analyze and interpret results
3. Apply basic mathematical, scientific, and engineering concepts to technical problem solving
4. Demonstrate a working knowledge of drafting, computer usage, including the use of one or more computer software packages for technical problem solving
5. Communicate effectively orally, visually and in writing
6. Work effectively in teams
7. Understand professional, ethical and social responsibilities
8. Have a respect for diversity, and a knowledge of contemporary professional, societal and global issues
9. Recognize the need for lifelong learning and be prepared to continue their education through formal and informal study
10. Apply creativity through the use of project-based work to design circuits, systems and processes
11. Have a commitment to quality, timeliness, and continuous improvement

Bachelor of Science in Engineering Technology (BSET)

The BSET curriculum consists of a carefully integrated program that includes professional studies, general education, and applied mathematics and sciences. Through the selection of the upper level technical concentration students can build and tailor their program, based on previous knowledge to assist them to launch a career that best meets their needs and aspirations. The Design concentration provides advanced course work in preparation for employment at the baccalaureate level in the fields of manufacturing, testing and fabrication of mechanical parts, and the building and construction industries. Graduates may become involved in applied design, product development, manufacturing or production, to name but a few. The Operations concentration provides an orientation for professional careers in technical management and operations in the manufacturing, sales, services, and construction industries. Graduates may become involved in many diverse areas including product development, manufacturing, quality assurance and logistics, sales, field engineering, technical writing and safety. The Space Science Technology concentration prepares students for a career in launch and space operations, payload management, and other requirements to work in the space industry. Projects in solving real-world problems are required of all students in the BSET program. In addition to the engineering technology core, all concentrations in the BSET program have a common lower division core as well as a common upper division core.

Program Educational Objectives:

1. Students will demonstrate an appropriate mastery of the knowledge, techniques, skills, and modern tools of industrial operations, design, space science, or geomatics.
2. Students graduates will demonstrate an ability to apply current knowledge and adapt to emerging applications of industrial operations, design, space science, or geomatics.
3. Students graduates will demonstrate an ability to conduct, analyze, and interpret experiments within industrial operations, design, space science, or geomatics.
4. Apply creativity through the use of team-based work to design and plan projects.
5. Students will demonstrate problem solving competencies for technical problems.
6. Students will demonstrate competence in written and oral communication.
7. Students will recognize the need to engage in lifelong learning through formal and informal study.
8. Students will demonstrate an understanding of professional, ethical, and social responsibilities.
9. Have a respect for diversity, and a knowledge of contemporary professional, social and global issues.
10. Students graduates will display a commitment to quality, timeliness, and continuous improvement.

BSET Program Outcomes:

Graduates will be able to:

1. Demonstrate an appropriate mastery of the knowledge, techniques, skills, and modern tools of industrial operations, design, space science, or geomatics.
2. Demonstrate an ability to apply current knowledge and adapt to emerging applications of engineering and technology within industrial operations, design, space science, or geomatics.
3. Demonstrate an ability to conduct, analyze, and interpret experiments within industrial operations, design, space science, or geomatics.
4. Apply creativity in the design of projects within industrial operations, design, space science, or geomatics.
5. Demonstrate an ability to function effectively on teams.
6. Demonstrate technical problem solving competencies.
7. Demonstrate written and oral communication competencies in Engineering Technology.
8. Recognize the need to engage in lifelong learning through formal and informal study.
9. Demonstrate understanding of professional, ethical, and social responsibilities.
10. Demonstrate a respect for diversity, and a knowledge of contemporary professional, social and global issues
11. Display a commitment to quality, timeliness, and continuous improvement.

Bachelor of Science in Information Systems Technology (BS)

The Engineering Technology Department also offers the Bachelor of Science degree in Information Systems Technology (BS), designed to accept Associate of Science (AS) degree graduates from community college programs in Computer Programming Technology, Digital Communications, and Networking. The IST curriculum provides the AS graduate with additional course work in networking and computer systems. It also provides skills and knowledge related to project management in Information Technology. A characteristic of this curriculum is that it contains less mathematics and natural science than do the BSET and BSEET curricula.

Reserve Officer Training Corps

Air Force ROTC (Aerospace Studies)

Chair: Col. William G. Palmbly; Trailer 501, Room 103; 407-823-1247; Fax 407-823-2265

Faculty/Staff: Captain Williams, Captain Ellingson, Captain Little, TSgt Fields, SSgt Crawford, and Mrs. Fioramanti, Office Manager

The Department of Aerospace Studies provides pre-commissioning education for qualified students who desire to serve as commissioned officers in the active duty Air Force. The department offers four-year, three-year, and two-year Air Force ROTC programs. The four/three-year program provides on-campus study during the freshman through senior years. The two year program allows community college transfer students and other students with two academic years remaining in either undergraduate or graduate status to earn an Air Force commission while completing their studies. All programs offer scholarship opportunities to selected students. Students are invited to write or visit the Department of Aerospace Studies to obtain additional information. The Air Force retains sole discretion whether or not any applicant is qualified for pre-commissioning education through the Air Force ROTC. More information on the Aerospace Studies program can also be found on the UCF AFROTC home page at <http://airforce.ucf.edu> and the Air Force ROTC home page at <http://www.afrotc.com>.

Curriculum

Students enrolled in the Air Force ROTC program may major in any academic discipline and earn a minor in Aerospace Studies. A major is not offered by this department. AFROTC courses are listed under the prefix AFR. The curriculum is divided into two phases:

1. General Military Course (GMC)

The General Military Course is designed to give students their first exposure to the Reserve Officer Training Corps program during their freshman and sophomore years. The courses deal with the mission, organization, and structure of the US Air Force, and the development of air power into a prime element of American national security.

2. Professional Officer Course (POC)

The Professional Officer Course is designed to develop and hone managerial and officer skills during a student's junior and senior years. All students who seek a commission through the Air Force ROTC must complete the POC curriculum. The curriculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

Leadership Laboratory

Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Requirements for entry into the Professional Officer Course

- Be at least 17 years of age at the time of acceptance
- Be able to complete the Professional Officer Course and complete all degree requirements prior to reaching age 29 if entering Flight Training, or before age 30 (can be waived to age 35) if entering a non-flying Air Force specialty
- Pass the Air Force Officer Qualifying Test
- Pass an Air Force medical examination
- Pass the Air Force Physical Fitness Test each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or six weeks)
- Enlistment in the Air Force Reserve certifying agreement to complete the POC and accept an Air Force Commission. This enlistment is terminated upon receipt of a commission

Monetary Allowance

All contracted students enrolled in the Professional Officer Course receive a tax-free monetary allowance of \$350 or \$400 per month based on their academic classification.

Air Force ROTC Scholarship Program

Scholarships are phased at four, three, and two year opportunities. This system provides opportunities to those students enrolled in certain academic majors. Depending on state residency and credit hours, these scholarships may provide for full tuition and fees, and an allowance for textbooks. For additional information on Air Force ROTC call 407-823-1247 or visit our web site at <http://airforce.ucf.edu> or e-mail us at AFROTC@mail.ucf.edu. This information is subject to change.

Summer Training

All students must attend a summer Field Training course conducted at Maxwell Air Force Base in Montgomery, AL, Tyndall Air Force Base in Panama City, FL or Ellsworth AFB in Rapid City, SD. This course includes junior officer training, officer career orientation, and physical conditioning. Students enrolled in the four-year AFROTC program will attend a four-week summer course, normally upon completion of the General Military Course. A six-week summer course, which includes a modified version of the General Military Course, is required for students entering the two-year AFROTC program. These students must complete their summer training prior to their formal enrollment in the Professional Officer Course curriculum. These students need to contact the department early in the Fall prior to the Summer Field Training.

Officer Commissioning

Students who complete the Professional Officer Course are appointed Second Lieutenants in the United States Air Force. After completing the training program and entering active duty, they will serve a minimum active duty tour which varies in length depending on their particular career area (typically four years). Such obligations are explained in detail during the one-on-one counseling sessions conducted with each candidate by detachment officers.

Army ROTC (Military Science)

Chair: LTC Bryce Christensen; Trailer 501, Room 110

Faculty/Staff: MAJ Fallon, CPT Cruce, CPT Rossario, MSG Celestine, MSG Neil, SFC South, Ms. Brown, Mr. Gonzalez; Ms. Betty Martin, Office Manager; 407-823-2430, Fax 407-823-5324 <http://army.ucf.edu>

The University of Central Florida, in cooperation with the US Army, provides an opportunity to earn a commission as a Second Lieutenant and compete for an active duty assignment or accept a

guaranteed Army Reserve or National Guard position. The program offers both a four-year and two-year option for students working on their Associate of Arts, Baccalaureate or Graduate degrees. The two-year option allows students with at least two academic years remaining in either undergraduate or graduate studies to meet all requirements for commissioning. Students may be eligible for the Army's Simultaneous Membership Program (SMP) which combines Reserve Forces Duty with Army ROTC officer training courses on campus. Students earn about \$9500.00 in their last two years. Note: The Army retains sole discretion - in accordance with public law and military regulation - regarding whether or not any applicant is qualified for pre-commissioning education through Army ROTC. More information on the AROTC program can be found on the AROTC Department home page: <http://army.ucf.edu>.

Curriculum

The Military Science on-campus curriculum is divided into two phases: Basic Military Science Course and Advanced Military Science Course.

1. Basic Military Science

A. The Basic Military Science courses, open to both men and women, are designed for four-year participants and are normally offered during the freshman and sophomore years. These courses address military organizations, equipment, weapons, map reading, land navigation, management skills, grade structure, communications and leadership. There are non-contractual obligations or commitments for students in the Basic course phase. The Basic Course phase offers students the opportunity to see what Army ROTC is all about (MSL 1101, 1102, 2201, 2202). Students will also participate in a Field Training Exercise (FTX). These courses fulfill pre-requisite requirements for entering the Advanced Military Science phase.

B. Requisites for admission to the Basic Course:

- Enrollment in a Baccalaureate or Master's degree program
- Full-time student status

2. Advanced Military Science

A. The Advanced Military Science courses (MSL 3101, 3202, 4301, 4302), open to both men and women, are taken during the junior and senior years. These courses specialize in small unit tactics, how to prepare and conduct military training, military justice system, staff procedures, decision making and leadership. Students who desire a commission as a Second Lieutenant are contracted and paid a tax-free subsistence of \$350.00 per month up to 10 months during their Junior year and \$450.00 per month during the Senior school year. Each student is required to take courses that meet the Army's Professional Military Education Requirements. Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced program course. They must also successfully complete a 32-day Leadership Development and Assessment Course at Fort Lewis, WA, normally between their junior and senior years.

B. Requisites for Admission to the Advanced Course:

- Successful completion of Basic Course, Basic Camp (LTC), JROTC, prior military service or permission of the Department Chair
- Must be at least 17 years of age at the time of entry, but not more than 30 years of age at the time of commissioning (30-year age regulation may be waived for veterans up to age 34)

- Successful completion of an Army physical examination
- Agreement to complete the Advanced Course requirements and serve on either Active, Reserve, or National Guard duty as a commissioned officer
- Full-time undergraduate student status (minimum of 12 hours); full-time graduate student status (minimum six hours)
- US Citizen
- A minimum cumulative GPA of 2.0 is required to contract non-scholarship cadets, and a minimum cumulative GPA of 2.5 is required for scholarship consideration.

3. Monetary Allowance

All contracted and scholarship students enrolled in the Advanced Military Science Course receive a tax-free monetary allowance of \$450.00 or \$500.00 per month during the school year.

4. Scholarships

Four, three and two-year scholarships are available for all students who qualify on a competitive basis. These scholarships provide full tuition, books and fees for Fall and Spring semesters. In addition, all contracted scholarship students also receive the \$300.00, \$350.00, \$450.00, or \$500.00 monetary allowance per month during the school year. Contact the Enrollment Officer for additional information at 407-823-5383.

5. Placement Credit

Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

6. Daytona Beach Campus Students

These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training Courses

1. Basic Course Summer Training (Leader Training Course)

A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning within two years. Students attending the summer course receive approximately \$700.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

2. Specialized Summer Training Courses

Qualified students can be selected to attend specialized military training occurring the summer months. These areas of training include: a) Airborne Training; b) Air Assault Training; c) Northern Warfare Training; d) Cadet Troop Leadership Training; e) Master Fitness Training; and f) Mountain Training.

3. Leadership Development and Assessment Course (LDAC)

All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student's leadership performance and potential. LDAC waives the 9 hour summer school requirement for Army ROTC Cadets. Students normally attend LDAC the summer following their junior year and receive approximately \$800 pay for the training.



College of Health and Public Affairs

Interim Dean: Joyce E. Dorner, HPA 365, 407-823-0171
<http://www.cohpa.ucf.edu>

Associate Dean, Graduate Studies and Technology:

Stephen Holmes, HPA 365, 407-823-0171

Associate Dean, Undergraduate Studies: Pamela Kirby, HPA 365,
 407-823-0171

Associate Dean, Student/Personnel Affairs: Melvin Rogers,
 HPA I 365, 407-823-0171

Associate Dean, Research: Thomas Wan, BNT 108, 407-823-0170

The College of Health and Public Affairs houses five departments and schools: the School of Social Work, and the departments of Communication Sciences and Disorders, Criminal Justice and Legal Studies, Health Professions, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health, social and justice services. In addition to a PhD program in Public Affairs the College houses both undergraduate and graduate interdisciplinary programs that contribute to a solid educational foundation in public affairs.

General Requirements for the Bachelor's Degree

Some Schools, Departments or Programs in the College are upper division, limited access programs. Acceptance by or registration at the University does not constitute admission to the following: School of Social Work, and the Programs in Athletic Training, Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences.

Application must be made to the appropriate program. Additional information regarding prerequisites and minimum grade point averages may be obtained from the desired School, Program, Department, or College website.

The following Departments and Programs do not have restrictions on admissions: Communication Sciences and Disorders, Criminal Justice, Legal Studies, Public Administration, Health Sciences - Pre-Clinical Allied Health Track, and Health Services Administration.

Academic Advisement

Office of Undergraduate Student Services

Director: Judith A. Sindlinger, HPA2 115, 407-823-0010,
 E-mail: hpainfo@mail.ucf.edu

The College of Health and Public Affairs Office of Undergraduate Student Services assists undergraduate students in understanding college and university requirements and procedures as well as coordinating orientation, registration and graduation certification. Students interested in pursuing limited access programs are encour-

aged to meet with advisors in the college to stay on track by taking the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those who are having academic difficulty. Questions concerning university and college academic policies should be directed through this office. Faculty advisors are assigned to students upon admission to their degree program in their academic department.

Programs and Degrees

Major	Degree
Cardiopulmonary Sciences	BS
Communication Sciences and Disorders	BA, BS, MA
Criminal Justice	BA, BS, MS
Health Information Management	BS
Health Sciences - Athletic Training	BS
Health Sciences - Pre-Clinical Allied Health Track	BS
Health Services Administration	BS, MS
Legal Studies	BA, BS
Public Administration	BA, BS, MPA, MNM
Public Affairs	PhD
Physical Therapy	DPT
Radiologic Sciences	BS
Social Work	BSW, MSW

Department of Communication Sciences and Disorders

Chair: R. J. Lieberman, HPA2 101, 407-823-4798
<http://www.cohpa.ucf.edu/comdis>

Undergraduate Coordinator: Jamie Schwartz
Clinic Director: C. Harvey, Research Pavilion Suite 155,
 407-249-4770

Faculty: Barnes, Barrett, Carson, DiNapoli, Dreilinger, Giess, Greenwood, Harden, Harvey, Hostetler, Kent-Walsh, Lieberman, Nye, Parsons, Ratusnik, Riess, Rivers, Rosa-Lugo, Ruddy, Ryalls, Schwartz, Utt, Vanryckeghem, Whiteside.

The discipline of communication sciences and disorders involves the prevention, evaluation, management, and study of human communication and its disorders. The undergraduate program in the Department of Communication Sciences and Disorders is pre-professional in nature and reflects the scientific foundations of the discipline. The three primary goals of the undergraduate program are: 1) to provide students with the necessary preparation for graduate study in speech-language pathology, audiology, or related fields such as special education, social work, and health services administration; 2) to seek careers in health and human services; and 3) to obtain licensure and employment as a speech-language pathology or audiology assistant.

The graduate program prepares speech-language pathologists for work with children and adults experiencing a variety of communication disorders in schools, hospitals, rehabilitation centers, community speech, language and hearing centers, and physician's offices. The graduate program has been accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association since 1986. Students should plan their major or minor in consultation with a departmental advisor to meet their individual interests and career objectives.

In addition to course work in communicative sciences and disorders, the Department offers an array of courses in American Sign Language and related topics.

Degrees: Communication Sciences and Disorders (BA, BS, MA)

Tracks: None

Minors: Communication Sciences and Disorders, American Sign Language and Deaf Studies

Certificates: American Sign Language, Language Development and Disorders

Department of Criminal Justice and Legal Studies

Chair: Robert Langworthy, HPA 311, 407-823-2603

Faculty: Applegate, Bast, Bohm, Cook, Craig, Eastep, Fabianic, Flagg, Flint, Ford, Grisct, Holmes, Kirby, Koblasz, Lanier, Lucken, Mahan, Malendevych, B. McCarthy, Milon, Myers, Paoline, O'Gorman, Randall, Reynolds, Ross, Russo, Sanborn, Scott, Slaughter, Surette, Watkins, Winton, Wolf, Wood.

The Department of Criminal Justice and Legal Studies includes two undergraduate degree programs: Legal Studies and Criminal Justice. The department supports Lambda Alpha Epsilon, the professional Criminal Justice fraternity, and Alpha Phi Sigma, the Criminal Justice Honor society and Phi Alpha Delta the Legal Studies professional society.

Criminal Justice Program

Criminal Justice is a problem-based field of study which focuses on the nature of crime and crime control agencies in a democratic society. The curriculum reflects the dynamic nature of the field and prepares students for challenging careers in public service.

Legal Studies Program

The Legal Studies Program provides students with a broad understanding of basic principles of law and the role and function of the legal system. The legal studies program, in addition to preparing students for law-related careers, provides a foundation for law school or other graduate education. All of the full time Legal Studies faculty are attorneys who are graduates of ABA approved law schools and are available for law school advising. The Department also supports Phi Alpha Delta, the professional law school fraternity. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Legal Studies.

Degrees: Criminal Justice (BA, BS, MS), Legal Studies (BA, BS)

Tracks: None

Minors: Criminal Justice, Legal Studies

Certificates: Crime Analysis and Crime Mapping, Criminal Profiling, Security Management, Victim Advocacy and Crime Scene Investigation.

Department of Health Professions

Chair: Diane M. Jacobs, HPA2 210, 407-823-2359

Faculty: Acierno, Angelopoulos, Bertetta, Cortelyou-Ward, Douglass, Edwards, Falen, Fottler, Gosnell, Hanney, Lee, Liberman, Ludy, Lytle, Malvey, McDonough, Noblin, Oetjen, Pierce, Rotarius, Salter, Schellhase, Segal, Smith, Trujillo, Unruh, Wagner, Walters, Wan, Welker, Worrell, Zhang.

The Department of Health Professions offers baccalaureate programs which prepare students for professions in the fields of Cardiopulmonary Sciences (Respiratory Care), Health Information Management, Athletic Training, Health Services Administration, and Radiologic Sciences. The Department also offers a degree in Health Sciences - Pre-Clinical Allied Health Track for those planning to go on to a graduate clinical professional program.

The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with

an accent on educating future leaders of the health care system. The Department seeks first to strengthen existing programs, as well as to identify and develop new programs that fulfill a documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, and scientific presentations. Finally, the Department seeks to provide continuing education for the health care community and consumer health education.

The programs in Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences require a minimum overall GPA of 2.5 for consideration for admission and the Athletic Training program requires a minimum overall GPA of 2.75. In addition, for admission a minimum grade of "C" (2.0) is required for prerequisite courses and required courses within the program. These programs are all accredited by their national professional associations and graduates are prepared to take the appropriate examination for certification.

Program in Cardiopulmonary Sciences

Director: Jeff Ludy, HPA2 210, 407-823-2214

The major in Cardiopulmonary Sciences (also known as respiratory care) leads to the Bachelor of Science Degree. In the professional curriculum, students study respiratory therapy skills, pharmacology, life support techniques, disease and patient assessment, and patient management. Upon completion of the undergraduate program, the baccalaureate prepared individual will possess basic patient care and advanced practice patient care skills and should be prepared to assume a future leadership role within the profession. Graduates will also be prepared to take the entry-level and advanced practice national examinations. These examinations will first lead to licensing by the State of Florida (CRT examination), and then to the advanced practice credential, Registered Respiratory Therapist (RRT examination).

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association. The cardiopulmonary sciences program is a limited access program and requires a separate application to the program submitted by February 1st of the year in which admission to the program is sought.

Degrees: Cardiopulmonary Sciences (BS)

Tracks: None

Minors: None

Program in Health Information Management

Director: Alice Noblin, HPA2 210, 407-823-2369

Health Information Managers are professional members of the modern health care team responsible for: 1) the acquisition and supervision of complete medical records on each patient, 2) the design and management of health information systems which collect, process, store, retrieve, and release health information and statistics, 3) assistance to administration, other health professionals, and medical staff in developing quality assurance programs by abstraction of medical data, preparation of statistical reports, and analysis of information, and 4) assistance in collection and analysis of data for public health services planning.

The curriculum of the Health Information Management program is approved by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). This is a limited access program and requires a separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management program are eligible to take the AHIMA Registered Health Information Administration Certification exam. By successfully passing the exam, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

Degrees: Health Information Management (BS)

Tracks: None

Minors: Health Information Management

Program in Health Sciences-Athletic Training

Director: K. Schellhase, HPA2 124, 407-823-3463

The Program in Athletic Training at the University of Central Florida is a track in the Program in Health Sciences. The athletic training track is a six semester program where students complete 12-15 credits per semester while engaged in clinical affiliations. The core of athletic training coursework emphasizes the competencies and proficiencies necessary for successful clinical practice in a variety of set-

tings in which certified athletic trainers are presently employed. A significant and important aspect of the educational process is the series of clinical experiences that occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, rehabilitation clinics, and professional athletic organizations. Upon successful completion of the course of study, the graduate with a Bachelor of Science degree in Health Sciences – Athletic Training Track is eligible to take the National Board of Certification (BOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (ATC). The Program in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). This is a competitive program that requires a separate application process following acceptance into the University. Consent from the program director is required.

Degrees: Health Sciences (BS)

Tracks: Athletic Training

Minors: None

Program in Health Sciences-Pre-Clinical Allied Health Track

Director: David M. Segal, Ph.D., HPA2 210, 407-823-6761,

E-mail: dsegal@mail.ucf.edu

<http://www.cohpa.ucf.edu/health.pro/hsgbs.cfm>

This program is a preparatory program for graduate level clinical disciplines for the student who wishes to seek admission to programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health, or Health Services Administration.

Degrees: Health Sciences (BS)

Tracks: None

Minors: Health Sciences

Program in Health Services Administration

Director: K. Cortelyou-Ward, HPA2 210, 407-823-2359

The department offers a baccalaureate degree in Health Services Administration. The baccalaureate degree is designed for students who desire to study the business side of health care. The primary goal of the program in Health Services Administration is to prepare managers to direct a variety of health care organizations such as hospitals, HMO's, clinics and any other organization involved in the delivery or management of health care services. The undergraduate curriculum is consistent with the curricular requirements of the Association of University Programs of Health Administration, stressing administration, policy and planning skills. A diverse health care community offers students a variety of internship experiences as well as providing placement opportunities upon graduation. Faculty are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment and integrated delivery mechanisms.

People within the health care industry with associate of science degrees in areas such as nursing, respiratory therapy, radiologic technologies, medical laboratory technology, dental hygiene, and others may find this program providing a migration path from the clinical side of the health care industry to the leadership side. Students without a background in the health care industry can build a solid understanding of the complexity of managing health services organizations.

Degrees: Health Services

Administration (BS, MS)

Tracks: None

Minors: Health Services

Administration, Health Sciences

Program in Radiologic Sciences

Director: T. J. Edwards III, HPA2 210, 407-823-2747

The University of Central Florida offers the only public accredited Bachelor of Science in Radiologic Sciences degree program in Florida. The Radiologic Sciences Program offers entry-level students the opportunity to specialize in conventional radiography and the advanced imaging modalities. Radiographers are integral members of the health care team dedicated to providing high quality patient care. Graduates are prepared to function as clinically competent radiographers and, with experience, advance to leadership positions in the profession.

The University of Central Florida also sponsors an A.S. to B.S. transfer program designed for ARRT certified Radiographers interested in combining their professional development with earning a baccalaureate degree in Radiologic Sciences. Didactic courses for the entry-level and the A.S. to B.S. transfer programs are offered in the classroom and on the internet. Additional information regarding the transfer program is provided in the "Articulated A.S. to B.S. Degree Programs" section of the catalog.

The primary role of radiographers is to perform medical imaging procedures for the diagnosis of disease and injury. The radiographer enjoys an interesting and challenging variety of examinations/procedures which may include conventional radiography, fluoroscopy, mammography, vascular imaging, computed tomography and magnetic resonance imaging. Employment opportunities are available in hospitals, imaging centers, and private physician offices. Career advancement opportunities include positions in advanced imaging modalities, administration, education, and quality management.

The Radiologic Sciences Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the Radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

The program works in conjunction with Arnold Palmer Hospital, Central Florida Regional Hospital, Drew Medical, Health Central, HealthSouth Diagnostic Center, Jewett Orthopaedic Clinic, Orlando Regional Medical Center, Orlando Regional Lucerne Hospital, Regional MRI, Orlando Regional South Seminole Hospital, UCF Student Health Services and University Diagnostic Institute.

Degrees: Radiologic Sciences (BS)

Tracks: None

Minors: None

Department of Public Administration

Chair: Mary Ann Feldheim, HPA2 238, 407-823-2604

Faculty: Colby, Collins, Feldheim, Jurie, Korosec, Kapucu, Lawther, Liou, Morin, Rogers, Wang.

The Department of Public Administration offers a variety of degrees, minors, and a certificate to provide students with a broad understanding of the public management or nonprofit management. The public sector is vast and includes over 20 million employees, and the nonprofit sector has expanded to nearly half that number. The Department prepares students for professional careers in public service at the city, county, state and federal levels. Currently the public sector in the United States includes over 87,000 governments, of which the federal government is but one. The Bachelor of Arts or Science degrees with a major in Public Administration enables students to attain entry level positions in government and other nonprofit organizations, and subsequently to advance within their organizations. Those seeking senior management and executive positions are strongly encouraged to pursue the Master of Public Administration (MPA) or Master of Nonprofit Management (MNM). Students with interests that go beyond the Masters level may also pursue a Ph.D. in Public Affairs.

The virtues of public sector employment are numerous. First, the range of employment opportunities is extraordinary and includes a variety of management and staff positions in city and county management, environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration, and emergency management, among others. Second, the salaries are generally highly competitive with private industry, despite common misconceptions to the contrary. Third, public sector employment provides people with the opportunity to "make a difference" for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.

Degrees: Public Administration (BA, BS, MPA, MNM)

Tracks: None

Minors: Public Administration, Urban and Regional Planning, Emergency Management and Homeland Security, American Humanics

Certificates: Nonprofit Management

School of Social Work

Director: John Ronnau, HPA 204, 407-823-2114

Faculty: Abel, Allgood, J. Davis, L. Davis, Gammonley, Green, Harris, Jacinto, Kohn, Lawrence, Leon, Maiden, Molina, Ramos, Rothenburg.

The School of Social Work offers a professional degree program that is nationally accredited by the Council on Social Work Education. Its primary focus is the preparation of students for entry-level professional social work practice within diverse human service organizations such as hospitals, schools, correctional settings, public welfare departments, child placement organizations, community centers, and counseling agencies. The Social Work program is a limited access program that requires separate application to the School of Social Work.

The School of Social Work also offers the Certificates of Aging Studies (open to all majors), Children's Services (open to SW majors only) and Addictions (open to SW majors only). The Aging Studies Certificate is an interdisciplinary program that helps prepare the students to meet the needs of the elderly citizens of Central Florida. The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing or sociology. Other students, such as those majoring in business, physical education, or art education may also find the program valuable. The Certificate in Children's Services (open to Social Work majors only) prepares social work students to respond to the special needs of children and families. This certificate is of special interest to students planning to work the field of child welfare or related areas. The Addictions Certificate (open to Social Work majors only) prepares students to work in the field of adult and adolescent substance abuse.

Degrees: Social Work (BSW, MSW)

Tracks: None

Minors: Aging Studies

Certificates: Addictions, Aging Studies, Children's Services

College of Medicine

Dean: Deborah German,
University Towers, 12201 Research Parkway, Suite 301, PO Box 160116, Orlando 32826-0116; 407-823-1849
<http://www.med.ucf.edu/>

The University of Central Florida College of Medicine was established in 2006 by Gov. Jeb Bush and the Board of Governors to increase opportunities for medical education in Florida, address the growing physician shortage nationwide and provide economic benefits to Central Florida and the state.

The college will offer a doctor of medicine (M.D.) degree program beginning Fall 2009, pending preliminary accreditation from the Liaison Committee on Medical Education. The college expects to enroll an initial class of 40 students and eventually produce about 120 medical graduates each year. Details on the application process will be made available following preliminary accreditation.

Dr. Deborah German, who was named founding dean of the college on Oct. 25, will work with her staff to develop a curriculum and secure preliminary accreditation by Spring 2008. The four-year medical program will capitalize on UCF's existing strengths in biomedical sciences, modeling and simulation, and optics and photonics. Other programs in materials science, psychology, chemistry, film and digital media, and nursing will support the program.

The College of Medicine will be located at the UCF Health Sciences Campus at Lake Nona on 50 acres that will also include the Burnett College of Biomedical Sciences, a medical library and other health sciences programs. Construction is scheduled to begin in March 2007.



COLLEGE OF NURSING

College of Nursing

Dean: Jean Leuner, HPA, Suite 220, 407-823-5496

Associate Dean: Linda Henning, HPA, Suite 220, 407-823-5496

Associate Dean: Jean Kijek, HPA, Suite 220, 407-823-5496

Faculty: Ahern, Andrews, Ark, Blackwell, Bushy, Byers, Covelli, Dennis, Desmarais, Dorner, Draves, Heglund, Hennig, Hoyt, Kijek, Kubiet, Ladores, Lafferty, LaManna, Lange, Leli, Maneses, Mayer, Powel, Rash, Ricci, Robinson, Ruland, Sheplan, Smith, Sole, Talbert, Wink

The College of Nursing is the 12th college to be established at the University. It was established as a Department of Nursing and graduated its first class in 1981. The College has achieved prominence as an innovator in nursing education, responding to a changing population with complex health care needs. The faculty of the College values access to education and embrace opportunities to utilize advanced technology, innovation and creativity to provide graduates with the highest quality education at the baccalaureate, master's and doctoral levels.

Today's challenging health-care environment provides unique opportunities for nursing. Nurses are needed more than ever to provide evidence-based patient care, serve in leadership roles, teach, engage in research, and influence policy.

The mission of the College of Nursing is to provide excellence in nursing education, research and service to develop clinicians, leaders and scholars who promote the health of diverse populations at the local, state, national and international levels. This mission is accomplished by: Focusing on vulnerable populations, innovative technology and health systems and policy; creating interdisciplinary and community partnerships; providing multi-modal, multi-site access for career advancement and professional development.

The College of Nursing offers a Bachelor of Science in Nursing (B.S.N.) Degree, the basis for professional nursing practice. The program has three tracks: basic, accelerated and RN to BSN. The basic and accelerated tracks prepare students for initial licensure as a registered nurse. The basic program is also offered at the Cocoa and Daytona regional campus sites. Students with a prior baccalaureate or higher degree from a regionally accredited college or university are eligible for the Accelerated Second Degree Bachelor of Science in Nursing option. The BSN graduate is prepared to provide comprehensive care in a variety of acute, community, and rehabilitative settings. The Program emphasis includes clinical nursing practice, health promotion and maintenance, and preparation for assuming leadership roles. The baccalaureate curriculum provides the foundation for graduate study in nursing.

The RN to BSN track offers registered nurses with an associate degree in nursing or diploma an opportunity to earn a BSN. Registered nurses licensed in Florida are eligible for admission into the RN to BSN Program at UCF. Each applicant is reviewed individually and guided to prevent repetition of previous coursework. RNs may submit applications during any semester. Contact the College of Nursing for specifics on the RN-BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, and Leesburg campuses. The RN-BSN Program is also offered via the Internet.

The goal of the Master of Science in Nursing (MSN) program is to prepare advanced practice nurses to assume leadership positions in a variety of healthcare settings. Program tracks include Nurse Practitioner (Family, Adult, or Pediatric), Clinical Nurse Specialist, Clinical Nurse Leader, Nurse Educator, and Nursing Leadership and Management. Minimum hours for the degree are 36-49 hours of grad-

uate work depending on the major. An evidence-based scholarly project is required. Student must be a licensed Registered Nurse to enter this program. A certificate in Nursing Education is available for students with a bachelor's degree in nursing or a related health field.

The doctor of philosophy in Nursing (PhD) program prepares nurse scientists to assume positions as nursing faculty, leaders in the application of innovative technologies to nursing education and clinical care, executive leaders in health care systems and scientists who contribute to the body of nursing knowledge through research.

The College of Nursing BSN and MSN programs are accredited by The Commission on Collegiate Nursing Education. The BSN Program is approved by the Florida Board of Nursing. All programs are limited access and require a separate application to the College of Nursing.

Degrees: Nursing (BSN) (MSN) (PhD)

Tracks: RN to BSN, Basic BSN, Accelerated BSN degree, AS to BSN, RN to MSN

Minors: None

General Requirements for the Bachelor's Degree

- Programs in the College of Nursing are upper division, limited access programs.
- Acceptance by or registration at the University does not constitute admission to the College of Nursing.
- Application must be made to the appropriate program in Nursing. Additional information regarding prerequisites and minimum grade point averages may be obtained from the College website.

Academic Advisement Office of Undergraduate Student Services

The College of Nursing Office of Undergraduate Student Services assists undergraduate nursing students in understanding matters relating to college and university requirements and procedures as well as coordinating orientation, registration and graduation certification.

Students interested in pursuing limited access programs are encouraged to meet with advisors in the college to stay on track by taking the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those who are having academic difficulty. Questions concerning university and college academic policies should be directed through this office. Faculty advisors are assigned to students upon admission to the degree program.

Programs and Degrees

Major Degree

Nursing BSN, MSN, PhD





CREOL and FPCE, The College of Optics and Photonics:

Dean and Director: Eric W. Van Stryland; 407-823-6800;
E-mail: info@creol.ucf.edu
<http://www.creol.ucf.edu>

The College of Optics and Photonics is a graduate school for research and education in optics, lasers, and photonics. CREOL (the Center for Research and Education in Optics and Lasers) and FPCE (the Florida Photonics Center of Excellence) are research centers within the College but CREOL predates the College by many years and we are best known internationally under this name. It was established in 1986 to provide the highest quality education in optics and lasers, conduct scholarly fundamental and applied research, and aid in the development of Florida's high technology-based industries.

CREOL and FPCE are the research arms of the The College which offers Masters (MS) and Doctoral (PH.D.) Degrees in Optics. CREOL has become an internationally recognized institute with 25 faculty members, 45 Ph.D. level research scientists, and 167 graduate students. The faculty are recognized as being among the best in the optics/laser/photonics field, with two thirds holding the rank of Fellow in major national and international professional societies. It is housed in a state-of-the-art 104,000-square-foot building dedicated to optics, photonics, and laser education and research on the main campus. This facility houses ninety research laboratories equipped with over \$45 million in state-of-the-art equipment.

The research activities span the spectrum from basic science to prototype development. The faculty and research staff pursue joint research projects with industry, academia, and government laboratories, and are always seeking new opportunities to work with industry

to expose students to the industrial environment and to help in technology transfer. Current research areas include: nanophotonics, biophotonics, imaging science, plasmonics, high-speed photonics networks and telecommunications, solid state laser development, nonlinear optics, laser induced damage, quantum-well optoelectronics, photonic information processing, infrared systems, 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, liquid crystal devices, laser materials processing, and light matter interaction. These programs are supported by over \$17 million of research grants and contracts annually from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from \$20,000 to \$26,000, are available to outstanding students pursuing graduate education in optics and photonics. Research training opportunities are also available to undergraduate students through the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation, and other research grants and contracts.

CREOL has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of CREOL. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of optics and photonics.



College of Sciences

Dean: Peter Panousis, CSB 201A, 407-823-1997

Associate Dean: Michael Johnson, CSB 201A, 407-823-3491

Associate Dean: Jack McGuire, CSB 201A, 407-823-3684

Associate Dean: Haven Sweet, CSB 201A, 407 823-2992

The College of Sciences, the largest academic unit at the university, educates and conducts research in physical, life, social, and behavioral sciences. The College houses the departments of Anthropology, Biology, Chemistry, Mathematics, Physics, Political Science, Psychology, Sociology, and Statistics and Actuarial Science; the Nicholson School of Communication; and the National Center for Forensic Science.

The College is responsible for all programs in the sciences and the departments collectively offer 35 baccalaureate, graduate, and pre-professional programs. For additional information concerning graduate programs, please refer to the Graduate Catalog:

<http://graduate.ucf.edu/currentGradCatalog/>

Undergraduates enrolled in the College must fulfill all University degree requirements, including those for general education, as well as the requirements of the degree program. To be certified for graduation, a student must achieve at least a "C" GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in specified courses and/or in portions of the program of study. Consult the program requirements and a departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign Language is not considered a foreign language and will not satisfy the requirement unless specifically permitted within the major.

Preprofessional Programs

Prelaw Program

Prelaw Advisor: Roger Handberg; CNH 414; 407-823-2608

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts or science background, regardless of major field. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that applicants take the Law School Admission Test (LSAT). General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-Law Advisor. Advisement within the major is provided by the department offering the major.

Prehealth Professions

The College of Sciences offers many of the courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional program of study for additional information.

Advisement

College of Sciences, Academic Services (COSAS)

Director of Undergraduate Services: Lee Anne Kirkpatrick; CSB 250; 407-823-6131; E-mail: cosas@mail.ucf.edu

<http://cosas.cos.ucf.edu>

The College of Sciences Academic Services (COSAS) is the primary

office for undergraduate academic assistance for the College of Sciences. COSAS assists students with degree requirements, policies, and procedures as well as coordinates orientation, registration, readmission, and graduation. Questions concerning University and College academic policies and requirements should be directed to COSAS. Questions concerning the requirements within a major or minor should be directed to the department offering the program. The student should contact the department early in his/her academic career. For additional information about COSAS, please visit our website.

Programs and Degrees

Title	Degree
Actuarial Science	BS, MS Track
Advertising/Public Relations	BA
Anthropology	BA, MA, Minor
Astronomy	Minor, BS Track
Biology	BS, MS, PhD, Minor
Biology-Pre Health Professional	BS Track
Biomedical Sciences	PhD
Chemistry	BS, MS, PhD, Minor
Communication	MA
Forensic Science	BS, MS
Interpersonal and Organizational Communication	BA, Minor
International Studies	BA track, Minor
Journalism	BA
Magazine Journalism	Minor
Mathematics	BS, MS, PhD, Minor
Mass Communication	Minor
Physics	BS, MS, PhD, Minor
Political Science	BA, MA, Minor
Political Science-Pre Law	BA Track
Psychology	BS, MA, MS, PhD, Minor
Radio/Television	BA
Social Sciences Interdisciplinary	BS, Minor
Sociology	BA, MA, PhD, Minor
Statistics	BS, MS, Minor

Departments and Programs

Anthropology: Department

Interim Chair: A. Chase; PH 309; 407-823-2227;
E-mail: anthropology@ucf.edu
<http://www.cos.ucf.edu/anthro/>

Faculty: Barber, A. Chase, D. Chase, Dupras, Geiger, Howard, D. Jones, Lieberman, Long, Matejowsky, McIntyre, Schultz, Silver, Sinnelli, Stearman, Walker, Wallace, Zorn

The Department of Anthropology offers courses and programs that lead to: a Bachelor of Arts in Anthropology; a minor in Anthropology with concentrations in general anthropology, archaeology, cultural anthropology, and physical anthropology; a minor in Anthropology in Multicultural Studies; a minor in Native American Indian Studies; an undergraduate certificate in forensics; a graduate certificate in Maya Studies; and, a Master of Arts in Anthropology with tracks in Cultural Competency, Archaeological Investigations in Forensics and Human Adaptations, and Maya Studies. The Undergraduate Anthropology Program prepares students for graduate training in Anthropology and provides them with the skills needed to apply the concepts, methods, and theories of Anthropology in the real world. Anthropology has four sub-disciplines, consisting of language and culture, cultural anthropology, physical anthropology, and archaeology. While undergraduate students are exposed to each of the sub-fields of Anthropology, the training for advanced work in each field differs. Thus, students should consult with their departmental advisor early in their academic careers.

Degrees: Anthropology (BA, MA)

Tracks: Cultural Competency (MA), Archaeological Investigations in Forensics and Human Adaptations (MA), Maya Studies (MA)

Minors: Anthropology (concentrations in general, archaeology, cultural, or physical), Anthropology in Multicultural Studies, Native American Indian Studies

Biology: Department

Interim Chair: Martin Quigley; BL 301; 407-823-2141
E-mail: biology@ucf.edu
<http://www.cos.ucf.edu/biology/>

Faculty: Bayer, Borst, Calestani, Crampton, Fauth, Fedorka, Harris, Hoffman, Jenkins, Logiudice, Morrison-Sheltar, Nadeau, Noss, Osborne, Parkinson, Quigley, Quintana-Ascencio, Roth, Sheltar, Sotero-Esteva, Stout, Thomas, Vajravelu, Von Holle, von Kalm, Walters, Waterman, Weishampel, Worthy.
Professors Emeritus: Ehrhart, Ellis, Kuhn, Koevenig, Snelson, Sweet, Taylor

The Department of Biology offers a Bachelor of Science in Biology, a Minor in Biology, the Master of Science in Biology, a graduate Certificate in Conservation Biology, a Ph.D. in Conservative Biology, and participates in an interdisciplinary Ph.D. program in Biomolecular Sciences. The core undergraduate curriculum provides a background in the chemical, mathematical, and physical sciences, as well as broad preparation in the biological sciences. This diverse background opens career opportunities for graduates in areas outside of their particular degree program. Graduates are well prepared to further their education in professional or graduate schools. Selection of electives, in consultation with a faculty advisor, permits emphasis on a subspecialty. Careful selection of restricted and unrestricted electives allows students to satisfy requirements for admission to professional or graduate school while completing their B.S. degree in Biology. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts.

Degrees: Biology (BS, MS, PhD)

Tracks: Biology Pre-professional (BS)

Minors: Biology

Chemistry: Department

Chair: Kevin D. Belfield; CH 117; 407-823-2246
E-mail: chemstaf@mail.ucf.edu
<http://www.cos.ucf.edu/chemistry>

Associate Chair and Undergraduate Coordinator: Cherie L. Geiger; CH 325; 407-823-2135

Faculty: J. Ballantyne, K. Belfield, A. Campiglia, C. Clausen, D. Diaz, S. Elsheimer, B. Fookes, C. Geiger, A. Gesquiere, M. Hampton, F. Hernandez, J. Hickman, E. Kluger, Q. Huo, S. Kuebler, F. Kujawa, S. Mallik, A. Masunov, G. Mattson, H. Miles, M. Perez, R. Petzold, O. Phanstiel, T. Selby, M. Sigman, S. Santra, L. Zhai

The Department of Chemistry offers courses and programs leading to a Bachelor of Science in Chemistry, a Bachelor of Science in Forensic Science, a minor in Chemistry, a Master of Science in Industrial Chemistry, Master of Science in Forensic Science, and a Ph. D. in Chemistry. The department also participates in the Ph.D. in Biomolecular Science. The undergraduate degree program in chemistry is accredited by the American Chemical Society Committee on Professional Training. It prepares the graduate for career opportunities in the chemical or related industries, or in government laboratories. The program also prepares students for further study at the graduate level in chemistry or in a related area such as materials science, pharmacology, or toxicology. With an appropriate choice of electives it also constitutes excellent preparation for the professional schools of dentistry, medicine, pharmacy, and veterinary medicine.

Degrees: Chemistry (BS, MS, PhD), Forensic Science (BS, MS)

Tracks: Chemistry, Forensic Analysis, Forensic Biochemistry

Minors: Chemistry

Communication: Nicholson School

Director: M.A. Shaver; COM 238; 407-823-2681;
E-mail: communication@ucf.edu
<http://www.cos.ucf.edu/communication>

Faculty: Akita, Bagley, Baltunis, Barfield, Bledsoe, Brown, Brunson, J. Butler, Collins, Costain, Davis, DeLorme, D. Shaver, Fedler, Hall, Hanlon, Hastings, Hodgson, Ihde, Katt, Kenney, Major, Malala, Maunez-Cuadra, McCain, Mills, Morgan, Moroux, Morrison, Neel, Pryor, Rice, Santana, Scott, Smith, Sublette, Thompson, Wager, M Wagner, Workman
Faculty Emeriti: Meeske, O'Keefe, Taylor, Wycoff

The Nicholson School of Communication provides students with a balance of practical skills and philosophical aspects of communication. The programs prepare students to understand mass media as social institutions and train them for professional careers. The School is composed of four Divisions each of which offer a Bachelor of Arts degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
2. Interpersonal & Organizational Communication. Provides knowledge, theory, and skills needed to understand and predict human communicative behavior, necessary for employment in business, sales, and NPOs, or as background for advanced study in graduate school.
3. Journalism. Provides theory and skills needed to gain employment in newspapers, magazines, and similar forms of mass communication.
4. Radio-Television. Provides theory and skills needed for careers in radio, television, and related forms of electronic communication.

Facilities

The Radio-Television Division has fully-equipped audio and video production facilities, a complete multi-camera television studio, an online radio station, and laboratories for interactive multimedia. The Journalism Division has computer labs and a digital darkroom. The Advertising/Public Relations Division has a computer writing lab. The Interpersonal/ Organizational Communication Division has a presentational speaking classroom equipped for audio/video record/playback and computerized visual presentation. The Division also has a small group laboratory equipped with audio/video record/playback.

Degrees: Advertising/Public Relations (BA), Communication (MA), Interpersonal & Organizational Communication (BA), Journalism (BA), Radio Television (BA)

Specializations: Broadcast Journalism, Production, Broadcast Generalist, News Writing, Visual Communications, Editing

Minors: Interpersonal Communication, Magazine Journalism, Mass Communication, Organizational Communication

Mathematics: Department

Interim Chair: Piotr Mikusinski; MAP 209; 407-823-2826
E-mail: math@mail.ucf.edu
<http://math.ucf.edu>

Associate Chair/Undergraduate Coordinator: Heath Martin;
MAP 215A; 407-823-5700

Faculty: Andrews, Anthony, Brennan, Cannon, Caron, Choudhury, Clarke, Dunlop-Pyle, Dutkay, Dutton, Griffiths, Han, Higgins, Ismail, Kassab, Katsevich, Kaup, Li, Martin, Mikusinski, Mohapatra, Nashed, Nicholson, Ou, Pensky, Phillips, Qi, Reid, Ren, Richardson, Rodriguez, Rollins, Schober, Shivamoggi, Song, Sun, Tamasan, Tovbis, Vajravelu, Yong, Young, Zhao

The Department of Mathematics offers courses and programs which lead to a Bachelor of Science in Mathematics, a minor in Mathematics, a Master of Science in Mathematical Science and a Ph.D. in Mathematics. (See the Graduate Studies catalog for a description of the M.S. in Mathematical Science and the Ph.D. in Mathematics.) The programs in mathematics are designed to serve:

1. students who desire to pursue careers in mathematics after having completed a baccalaureate degree;

2. students who desire to continue their education in graduate and professional schools; and
3. students who need to use advanced mathematics as a tool in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Mathematics have developed along several lines. There are the usual service courses in pre-calculus and calculus along with strong programs in the upper division in the traditional areas of algebra and analysis and applied mathematics.

The department does not award credit by examination for courses which are regularly taught. Students who feel they know the material in a given course are encouraged to take a more advanced class to fulfill their mathematics requirement. A limited number of student assistantships are available for qualified graduate students.

Degrees: Mathematics (BS, MS, PhD)

Tracks: Applied Mathematics, Computational Mathematics, Engineering/Physics, Mathematics, Pure Mathematics

Minors: Mathematics

Physics: Department

Chair: Talat Rahman; MAP 310; 407-823-2325;
E-mail: physics@ucf.edu
<http://www.physics.ucf.edu>

Associate Chair: Lee Chow; MAP 315; 407-823-2333

Faculty: Bhattacharya, Bindell, Bose, Braunstein, Britt, Brueckner, Campins, Chernyak, Chow, Del Barco, Efthimiou, Fernandez, Heinrich, Johnson, Khondaker, Kokooline, Leuenberger, Llewellyn, Luo, Martin, Montgomery, Mucciolo, Neighbor, Peale, Rahman, Roldan-Cuenya, Saha, Schelling, Schulte, Tonner, Winningham.

Faculty Emeritus: Brennan

Visiting Faculty: Cooney, Dubey, Flitsiyan, Ngwa, Zhmudsky.

The Department of Physics offers a multi-track program of study leading to the B.S. degree, giving students the flexibility to choose a suitable set of courses to prepare for their career goals. A common core of courses in theoretical and experimental physics will lead to a broad understanding of the general principles of physics. The different tracks allow students to specialize, applying problem-solving techniques in a certain area of interest; this also enhances their qualifications for employment in that area after graduation.

After graduation our students are prepared to enter advanced study in physics, engineering, medicine, environmental sciences, astronomy, and other related disciplines. They are also prepared to begin careers in positions are varied as engineering physics, computational physics, and physics education. Undergraduate physics majors benefit from small class sizes, and are encouraged to be involved in individually designed senior projects working with a faculty advisor.

The Department's research programs include optics and lasers, condensed matter physics, complex systems, biophysics, atomic and molecular physics, nanostructures, and space science. The Department of Physics also offers a Master of Science degree and a Doctor of Philosophy degree.

Degrees: Physics (BS, MS, PhD)

Tracks: General Physics, Materials Physics, Optics & Lasers, Computational Physics, Astronomy

Minors: Astronomy, Physics

Political Science: Department

Chair: R. Handberg; PH 302; 407-823-2608;
E-mail: politics@ucf.edu
<http://www.cos.ucf.edu/politicalscience>

Faculty: Benson, Bradford, Conroy, Dupuis, Fine, Hamann, Handberg, Houghton, Jacques, Jaeger, Jewett, Kiel, Kinsey, Knuckey, Lanier, Li, Morales, Pollock, Reichert, Sadri, Schraufnagel, Vites, Wilson, Young

The Department of Political Science seeks to:

1. Provide students with a broad background for careers in foreign and domestic public service and in the private sector where a knowledge of government and politics is necessary;
2. Provide students with a broad background in pre-law to facilitate their admission to law school;
3. Prepare students for teaching, research, and graduate study in Political Science;

4. Provide a broad background for careers in politics; and
5. Educate citizens and promote their active interest in public affairs.

Students should plan their major or minor in consultation with their departmental advisor according to their interests and career objectives. Political Science courses are divided into three areas of specialization: American Politics and Policy; International Relations and Comparative Politics; and Political Theory. It is strongly recommended that majors planning to continue their education at the graduate level or to pursue a career in international fields acquire a working knowledge of a foreign language. The Department of Political Science participates in the following programs:

- Asian Studies: Contact Houman Sadri.
- Environmental Studies: Contact Dwight Kiel or Peter Jacques.
- European Studies: Contact Kerstin Hamann
- Global and International Studies: Contact Waltraud Q. Morales
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson or Annabelle Conroy.
- Space Studies: Contact Roger Handberg
- Women's Studies: Contact Terri S. Fine or Annabelle Conroy.

Degrees: Political Science (BA, MA)

Tracks: American Politics, International Relations
Comparative Politics, International Studies, Prelaw

Minors: Political Science, Political Science/Prelaw

Psychology: Department

Chair: R. Dipboye; PSY 301; 407-823-2216;

E-mail: psychology@ucf.edu

<http://psychology.cos.ucf.edu/>

Assistant Chair: T. Hernandez; PSY 301; 407-823-2216

Faculty: Azimi, Bedwell, Berman, Borjesson, Brophy, Chin, Cox, Dipboye, M. Dunn, S. Dunn, Fisher, Fritzsche, Gilson, Hancock, Hernandez, Hickey, Hitt, Janowsky, Jensen, F. Jentsch, K. Jentsch, M. Kennerley, R. Kennerley, Lavooy, Le, McGuire, Mottarella, Mouloua, Murdoch, Negy, Newlin, Pritchard, Rapport, Renk, Reynoso, Rinalducci, Rosopa, Salas, Sims, Smither, Szalma, Wang, Whitten, Wooten

Faculty Emeritus: Abbott, Burroughs, Rollins, Thomas-Jenkins, Tucker

The Undergraduate Psychology Program has two primary missions; to prepare students for graduate training in psychology or related fields, and to provide the skills needed for students to apply the concepts and methods of psychology in their work, their communities, and their lives.

Degrees: Psychology (BS, MA, MS, PhD)

Tracks: None

Minors: Psychology, Behavioral Forensics Certificate

Sociology: Department

Chair: J. Corzine; PH 403B; 407-823-3744

<http://www.cos.ucf.edu/sociology>

Associate Chair: E. Grauerholz

Faculty: Bradatan, Campbell, Canan, Corzine, Dees, Dietz, Ford, Gay, Goldstein, Grauerholz, Huff-Corzine, Jasinski, Lynxwiler, Marshall, Morris, Mustaine, Rivera, Sikorska-Simmons, Wright.

Sociology includes the study of interpersonal interactions, groups, organizations, and societies through the application of theoretical approaches and the use of qualitative and quantitative methods. Students will be better prepared for careers in any field by being trained in critical thinking and analytical skills, and by being familiar with theoretical and methodological tools for the study of peoples, groups, and organizations. To this end, we provide state-of-the-art training in an array of courses.

Sociology majors master skills in quantitative and qualitative research methods, communication, and analytical thinking as well as acquiring written and oral presentational skills. These are among the top 10 abilities for which today's employers are looking and are also essential for success in graduate and professional programs. Sociology courses are directly relevant to many contemporary issues, including murder and violent crime, domestic violence, global warming, alcohol and drug abuse, popular culture, and changes in the family.

The department offers groups of courses in several areas, including social institutions, the environment, crime and deviance, popular culture, family, and diversity and social inequalities. As such, the B.A. in Sociology provides excellent grounding for a wide range of careers such as teaching, public administration, metropolitan planning, behavioral analysis, legal/court case assessment, law enforcement, marketing research, advertising, public relations, human resources, child welfare officer, victim advocate, convention/events organizer, environmental/social activist, social assistance specialist, and research analyst.

For more information about our nationally acclaimed yet personable faculty and our relevant, flexible major, go to <http://sociology.ucf.edu>.

Degrees: Sociology (BA, MA), Social Sciences Interdisciplinary (BS)

Tracks: Domestic Violence (MA)

Minors: Sociology, Social Sciences Interdisciplinary

Statistics and Actuarial Science: Department

Interim Chair: D. Nickerson; CCII 206; 407-823-5528

<http://www.cos.ucf.edu/statistics>

Faculty: Carta, Cutchins, Gau, Han, Johnson, Kellison, Modisett, Maboudou-Tchao, Ni, Pensky, Pepe, Ren, Richardson, J. Schott, S. Schott, Su, Uddin, Wang

The Department of Statistics and Actuarial Science offers courses and programs leading to a Bachelor of Science in Statistics, a Bachelor of Science in Actuarial Science, a minor in Statistics, and a Master of Science in Statistical Computing with tracks in Data Mining and Actuarial Science. (See the Graduate Studies catalog for a description of the M.S. in Statistical Computing.)

The undergraduate programs in statistics and actuarial science are designed to serve 1) students who desire to pursue careers in statistics or actuarial science after having completed a baccalaureate degree; 2) students who desire to continue their education in graduate or professional schools; and 3) students who use statistics or actuarial science as tools in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are available for qualified graduate and undergraduate students.

Degrees: Statistics (BS, MS), Actuarial Science (BS, MS Track)

Tracks: None

Minors: Statistics

ROSEN COLLEGE OF HOSPITALITY MANAGEMENT



Rosen College of Hospitality Management

Dean: Abraham Pizam; 9907 Universal Boulevard, Suite 231-H
Orlando, FL 32819; 407-903-8000
<http://www.hospitality.ucf.edu>

Associate Dean: Stephen LeBruto;
9907 Universal Boulevard, Suite 231-A; 407-903-8015

Faculty: Ashley, Breiter, Bunn, Chen, Choi, Croes, Dickson, DiPietro, Fisher, Fjelstul, Hara, Hutchinson, Iskat, Juge, Jung, Kaufman, Kwan, Lee, Logan, Lynch, McDowall, Milman, Muller, Murphy, Naipaul, Okumus, Ray, Rompf, Ross, Scantlebury, Severt D, Severt K, Smith, Terry, Tesone, Wang

The hospitality industry represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen College of Hospitality Management is ideally situated to prepare students for managerial careers in the hospitality industry. Whether the student is interested in entering lodging, food service, travel and tourism, financial management and technology, theme parks, vacation ownership resorts, golf management, or event management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 45 million tourists each year, has over 400 hotels with 120,000 rooms, 5,000 restaurants, and 75 theme parks and attractions. The industry employs a half million people in the State of Florida and many are in the Central Florida area.

The educational mission of the College is to provide students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, and to apply creative decision techniques in responding to those opportunities.

The curriculum is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and practical experiences that students will need to enter and succeed in a hospitality management career. Students also have the opportunity to experience the work world in hospitality through an internship requirement and through extensive contact with leading hospitality managers in the Central Florida area. There are three undergraduate degrees offered.

The College also houses the Linda Chapin Eminent Scholar Chair in Tourism Management and the Dick Pope Sr. Institute for Tourism Studies which was created and funded by the travel and tourism industry in Central Florida. The Institute conducts research and gathers information that helps the entire Orlando area hospitality industry better understand and serve its many guests from around the world.

The Center for Multi-Unit Restaurant Management and the Darden Eminent Scholar Chair in Restaurant Management provide a unique focus in the curriculum on corporate restaurant management. Students have access through the Center to leading restaurant industry executives. This academic unit is an integral part of the Rosen College of Hospitality Management.

Distinctive Benefits

- A state-of-the-art facility located in the heart of the tourism district in Orlando, Florida with on-campus housing.
- Access to the many hospitality organizations that serve one of the premier tourist destinations in the world.
- Extensive ties with the top leadership of the Orlando area hospitality industry.
- A large number of scholarships made available through the generous support of the industry.
- A faculty committed to continuously improving their knowledge of the hospitality industry as well as their ability to teach that knowledge to their students.
- A required work experience that provides students with practical experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with experience in food preparation.
- American Resort Development Association (ARDA) Professorship of Vacation Ownership.
- Central Florida Hotel and Lodging Association (CFHLA) Professorship of Convention and Conference Management.
- Hospitality Financial and Technology Professionals (HFTP) Professorship of Hospitality Financial Management and Technology.

Degrees: Event Management (BS), Hospitality Management (BS)
Restaurant and Food Service Management (BS)
Minor: Hospitality Management

Tracks: Vacation Ownership Resort Management; Theme Park and Attraction Management; Tourism Management; Lodging Management; Hospitality Financial Management and Technology; Golf Management



**Interdisciplinary Studies
(formerly Liberal & Interdisciplinary Studies)
Classroom Bldg I, Suite 302**

Director: Elliot Vitte; 407-823-0144; E-mail: ls@mail.ucf.edu

Program Contact: Interdisciplinary Studies Advising Team
Academic Advisors: Jessica Broerman, Laura Fitch, Lee Logan, Sandra Tabert

The Interdisciplinary Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study with professional advising and courses from across the university. The degree includes five different tracks from which to choose. There are also two minors and a certificate program.

Degrees: Interdisciplinary Studies (BA, BS, MA, MS)

Tracks: Interdisciplinary Studies, Liberal Arts, Environmental Studies, Women's Studies, Nanoscience & Nanotechnology

Minors: Environmental Studies, World Comparative Studies

Certificates: Cultural Tourism

UCF DEGREE PROGRAMS

Accounting	English - Literature	Medical Laboratory Sciences
Actuarial Science	English - Technical Writing	Modern Language Combination
Advertising/Public Relations	English Language Arts Education	Molecular Biology and Microbiology
Aerospace Engineering	Environmental Engineering	Molecular Biology and Microbiology - Preprofessional Concentration
Aerospace Engineering - Accelerated Undergraduate-Graduate Program	Event Management	Music
Anthropology	Exceptional Student Education	Music - Jazz Studies Track
Applied Science (BAS) A.S. to B.S. Track	Film - B.F.A.	Music - Music Composition Track
Art	Film - Cinema Studies Track	Music - Music Performance Track
Art - Animation Track	Film - World Cinema Track	Music Education
Art - History Track	Finance	Nursing
Art - Studio Track	Foreign Language Education - French	Nursing - Accelerated Second Degree B.S.N. Option
Art Education	Foreign Language Education - Spanish	Nursing - A.S. to B.S.N. Track
Biology	Forensic Science - Analysis Track	Nursing - R.N. to B.S.N. Program
Biology - Preprofessional Concentration	Forensic Science - Biochemistry Track	Nursing - R.N. to M.S.N. Option
Biotechnology	French	Nursing - SCC/UCF ASN to BSN enrollment option
Business Administration	General Business	Philosophy
Cardiopulmonary Sciences	General Business - A.S. to B.S. Track	Photography
Chemistry	Health Information Management	Physical Education
Civil Engineering	Health Sciences - Athletic Training Track	Physics
Communication Sciences and Disorders	Health Sciences - Pre-Clinical Allied Health Track	Political Science
Communication Sciences and Disorders - Accelerated Undergraduate-Graduate Program	Health Services Administration	Political Science - International Studies Track
Computer Engineering	History	Political Science - Prelaw Track
Computer Engineering - Accelerated Undergraduate-Graduate Program	History - Accelerated Undergraduate-Graduate Program	Psychology
Computer Engineering - Software Engineering Concentration	Hospitality Management	Public Administration
Computer Science	Hospitality Management - A.S. to B.S. Track	Radio - Television
Computer Science - Accelerated Undergraduate-Graduate Program	Humanities	Radiologic Sciences
Construction Engineering	Humanities - Philosophy, Religion, & Popular Culture Track	Radiologic Sciences - A.S. to B.S. Track
Criminal Justice	Industrial Engineering	Real Estate
Criminal Justice - A.S. to B.S. Track	Industrial Engineering - Accelerated Undergraduate-Graduate Program	Religious Studies
Digital Media	Information Systems Technology	Restaurant and Foodservice Management
Early Childhood Education	Information Systems Technology - A.S. to B.S. Track	Science Education - Biology
Economics	Information Technology	Science Education - Chemistry
Economics, Business	Interdisciplinary Studies	Science Education - Physics
Economics - Accelerated Undergraduate-Graduate Program	Interdisciplinary Studies - Environmental Studies Track	Social Science Education
Electrical Engineering	Interdisciplinary Studies - Liberal Arts Track	Social Sciences
Electrical Engineering - Accelerated Undergraduate-Graduate Program	Interdisciplinary Studies - Nanoscience & Nanotechnology Track	Social Work
Electrical Engineering Technology - A.S. to B.S.E.E.T. Concentration	Interdisciplinary Studies - Women's Studies Track	Sociology
Electrical Engineering Technology - Computer Systems Concentration	Interpersonal/Organizational Communication	Spanish
Electrical Engineering Technology - Electrical Systems Concentration	Journalism	Sports and Fitness
Electrical Engineering Technology - Photonics Concentration	Legal Studies	Statistics
Elementary Education	Liberal Studies (See Interdisciplinary Studies)	Technical Education and Industry Training
Engineering Technology - Design Concentration	Management	Theatre
Engineering Technology - Operations Concentration	Management Information Systems	Theatre - Musical Theatre Track
Engineering Technology - Space Systems Concentration	Marketing	Theatre Studies
English - Creative Writing	Mathematics - Applied Track	
	Mathematics - Computational Track	
	Mathematics - Engineering/Physics Track	
	Mathematics - Pure Track	
	Mathematics Education	
	Mechanical Engineering	
	Mechanical Engineering - Accelerated Undergraduate-Graduate Program	

UCF DEGREE PROGRAMS

ACCOUNTING (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

Admission Requirements

- Completion of the General Education program at UCF, a Florida Public Community College, or a Florida Public University
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (min 36 hrs)

A. Communication Foundations Required: SPC 1600	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations Select MAC 1105 College Algebra Select CGS 2100CC Computer Fund. for Bus	3 hrs 3 hrs
D. Social Foundations Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs 3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a "C" (2.0) or better

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs
ECO 2013	Macroeconomics	3 hrs
ECO 2023	Microeconomics	3 hrs
*ECO 3401	Quantitative Business Tools I	3 hrs
CGS 2100CC	Computer Fundamentals for Business	3 hrs

*At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Common Body of Knowledge (36 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB3356	Intro to International Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011	Essentials of Management/Information Systems	4 hrs
MAR 3023	Marketing	4 hrs
BUL 3130	Legal and Ethical Environment of Business	4 hrs
Last Semester:		
MAN 4720	Strategic Management	4 hrs

4. Special College and/or Departmental Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have a "C" (2.0) or better in each common program prerequisites class.
- A minimum grade of "C" (2.0) must be earned in each accounting, business law, and tax course completed. Principles of Financial Accounting and Principles of Managerial Accounting are included under this rule.
- Students in the Accounting major must maintain a 2.0 or higher cumulative Grade Point Average in all 3000 level or higher Accounting or Tax courses taken at UCF. Failure to maintain the required 2.0 Grade Point Average will result in the student being placed on lack of progress in the major. Lack of Progress in the major will continue until such time as the student's cumulative GPA in all Accounting and Tax courses reaches 2.0 or higher. If a student on lack of progress in the major fails to achieve a 2.0 minimum GPA in Accounting and Tax courses in a subsequent term, that student will be dropped as an accounting major. A student who is dropped may seek readmittance as an Accounting major by submitting a letter indicating the reasons for academic difficulties and positive plans for achieving an Accounting and Tax GPA of 2.0 or higher. Readmission is not automatic.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

- All students must have credit for a course in each of the following areas:
 - English communication arts including written composition
 - Oral expression
 - Behavioral science such as psychology, anthropology, and sociology
 - Humanities
 - Political environment of business and society such as political science, public administration, and ethics
- Students must have at least a 2.0 GPA in the College of Business and in the accounting major.
- A grade of "C-" (1.75) or lower is not satisfactory for continuing into other accounting courses and will not count toward graduation for an accounting major.

5. Foundation (Required) (12 hrs)

ACG 3131	Financial Accounting Concepts and Analysis	3 hrs
ACG3361	Intermediate Managerial Accounting	3 hrs
ACG 4401C	Accounting Information Systems	3 hrs
TAX 4001	Taxation of Business Entities and Transactions	3 hrs

6. Area Specialization/Concentration Requirements (9 hrs)

Select one set from the following area specialization options:

A. Public Accounting

ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
ACG 4651	Auditing	3 hrs

B. Managerial Accounting

ACG 4671	Internal Auditing	3 hrs
ACG 5346	Intermediate Managerial Accounting	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs

C. Accounting Information Systems

ACG4671	Internal Auditing	3 hrs
ACG 5405	Advanced Accounting Information Systems	3 hrs
ISM 3253	MIS Techniques	3 hrs

D. Governmental and Not-For-Profit Accounting

ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
ACG 4671	Internal Auditing	3 hrs
ACG 5517	Financial Accounting and Auditing for Governmental and Nonprofit Organization	3 hrs

E. General Accounting

Select one additional financial reporting course:

ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs

Select one auditing course:

ACG 4651	Auditing	3 hrs
ACG 4671	Internal Auditing	3 hrs

Select one additional accounting course from the Restricted Electives listed below

Note: Course substitutions in any area require approval by the Director, School of Accounting. A grade of "B" or better in pre-requisite course required to take graduate level courses and a minimum GPA of 2.75.

7. Restricted Electives (3 hrs)

Students may choose among the following accounting and accounting-related business courses:

ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
ACG 4401C	Accounting Information Systems	3 hrs
ACG 4651	Auditing	3 hrs
ACG 4671	Internal Auditing	3 hrs
ACG 4932	Approved Special Topics Courses in Accounting	3 hrs
ACG 4970H**	Honors Thesis in Accounting	3 hrs
TAX 4001	Taxation of Business Entities	3 hrs
ACG 5346	Advanced Managerial Accounting	3 hrs
ACG 5405	Advanced Accounting Information Systems	3 hrs
ACG 5517	Governmental and Nonprofit Accounting	3 hrs
BUL 5332	Advanced Business Law Topics	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 4453	Financial Models	3 hrs
ISM 3253	MIS Techniques	3 hrs
ISM 4212C	Database Management Systems	3 hrs
TAX 5015	Advanced Taxation Topics	3 hrs

(HPA electives to be added for Governmental Specialization)

**Enrollment restricted to students accepted into the Honors in the Major Program

8. Honors in the Major (6 hrs)

Eligibility: Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credits including at least 12 graded upper-division hours at UCF; at least a 3.5 GPA within the major; and at least a 3.2 cumulative GPA including all upper-division courses regardless of institution.

UCF Degree Programs

Admission: Application for admission to the Honors in the Major program must be approved by both the Honors in the Major Coordinator for the School of Accounting and Associate Dean of the Honors College plus the payment of \$25.00 one-time membership dues.

Requirements: Students accepted into the Honors in the Major Program must complete either:

*ACG 4903H	Directed Readings in Accounting	3 hrs
*ACG 4904H	Honors Seminar in Accounting	3 hrs
plus		
ACG 4970H	Honors Thesis in Accounting	3 hrs

*With approval of the School of Accounting Honors in the Major Coordinator, the Directed Readings or Honors Seminar course will satisfy one of the Area Specialization course requirements toward satisfaction of the course requirements for the Accounting Major.

9. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Students pursuing a Bachelor of Arts Degree may substitute American Sign Language for the foreign language exit requirement, except where one or more foreign languages have been specified by a college, school, or program for a specific degree.

Graduation: none

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

CPA Examination Requirements

Effective August 31, 1983, Florida Law states that to qualify to sit for the CPA exam, one must possess thirty (30) additional semester hours of credit beyond the minimum requirements for the baccalaureate degree. In addition to this overall educational requirement, the following specific criteria also apply:

- 36 hours in accounting beyond elementary, including coverage of financial accounting, auditing, cost and managerial accounting, and taxation.
- 39 hours in general business, including at least 6 hours of business law.

Because of these increased educational requirements, no experience or additional course work is needed for certification. To satisfy the necessary coursework required by the law, the School of Accounting offers the Master of Science in Accounting (MSA) and the Master of Science in Taxation (MST) degree programs. Please see the *Graduate Catalog* for program requirements. For additional information about the department, curriculum, faculty, events, and careers in accounting, students are invited to visit our department home page at: <http://www.bus.ucf.edu/acc/>.

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit

will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.

- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

SUGGESTED FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman		15 hrs	2nd Term	15 hrs
1st Term				
ENC 1101*	3	ENC 1102*	3	
Cult-Hist I*	3	Cult-Hist II*	3	
MAC 1105*	3	Art/Music/Lit	3	
Psy/Syg/Ant	3	CGS 2100CC*	3	
Science	3	Science	3	

Must complete 9 hours in a Summer term

Sophomore		15 hrs	2nd Term	15 hrs
1st Term				
ECO 2023*	3	ECO 2013*	3	
ACG 2021*	3	ACG 2071*	3	
SPC 1600	3	POS 2041	3	
***Elective	3	***Elective	3	
***Elective	3	ECO 3401*	3	

*"C" (2.0) or better grade required in each class

**Accounting majors must have a "C" (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major

Junior		15 hrs	2nd Term	15 hrs
1st Term				
GEB 3031	4	ECO 3411	4	
**BUL 3130	4	GEB 3356	4	
**ISM 3011	4	MAN 3025	4	
**ACG 3131	3	**ACG 3361	3	

Senior		14 hrs	2nd Term	16 hrs
1st Term				
**TAX 4001	3	MAN 4720	4	
**ACG 4401C	3	**ACG Specialization	3	
FIN 3403	4	**ACG Specialization	3	
MAR 3023	4	**ACG Restricted Elective	3	
		**ACG Specialization	3	

**Accounting majors must have a "C" (2.0) or better in each class to include law and tax and a 2.0 GPA in major.

***General electives as required to reach 120 semester hours.

ACTUARIAL SCIENCE (B.S.)

College of Sciences

Department of Statistics and Actuarial Science

CC II 212, 407-823-5562

<http://www.cos.ucf.edu/statistics>

E-mail: statistics@mail.ucf.edu

Contact: Stephen Kellison; 407-823-5530

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department
- Students must earn at least a "C" (2.0) in each STA course
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major

- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with a departmental advisor
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+3 hrs)

Note: Certain courses must be selected in the GEP for the major which brings the GEP above 36

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
Select MAC 2311	
Select STA 2023	
D. Social Foundations	6 hrs
Select ECO 2013	
Select an ANT, PSY or SYG listed course	
E. Science Foundations	8 hrs
Select PHY 2053C or CHM 2045C*	
Select BSC 2010C	
*CHM 2040C plus CHM 2041C can substitute for CHM 2045C.	

2. Common Program Prerequisites (14 hrs)

COP 3502C*	Computer Science I	3 hrs
ECO 2013	Princ of Macroeconomics	GEP
ECO 2023	Princ of Microeconomics	3 hrs
MAC 2311	Calculus with Analy Geo I	GEP
MAC 2312	Calculus with Analy Geo II	4 hrs
MAC 2313	Calculus with Analy Geo III	4 hrs

*See Transfer Notes for possible substitutes

3. Core requirements (53 hrs)

ACG 2021	Princ Financial Accounting	3 hrs
ACG 2071	Princ Managerial Accounting	3 hrs
FIN 3403	Business Finance	3 hrs
STA 2023	Statistical Methods I	GEP
STA 4321	Statistical Theory I	3 hrs
STA 4322	Statistical Theory II	3 hrs
STA 4672	Actuarial Statistical Methods	3 hrs
STA 4942	Practicum in Act Science	3 hrs
STA 4183	Theory of Interest	3 hrs
STA 4130	Life Contingencies I	3 hrs
STA 4131	Life Contingencies II	3 hrs
COT 4500	Numerical Calculus	3 hrs
ENC 3241	Writing for Technical Professionals	3 hrs
BSC 2010C	Biology I	GEP
CHM 2045C or PHY 2053C		GEP
a. Select one course		4 hrs
MAS 3105	Linear and Matrix Algebra	
MAS 3106	Linear Algebra	
b. Select a third science course and associated, with lab		4 hrs
BSC 2011C	Biology II (PR: BSC 2010C)	
CHM 2045C*	Chemistry Fundamentals (if not taken in GEP)	
CHM 2046 & 2046L	Chemistry Fundamentals II & Lab (PR: CHM 2045C)	
PHY 2053C	College Physics I (if not taken in GEP)	
PHY 2054C	College Physics II (PR: PHY 2053C)	
*CHM 2040C plus CHM 2041C can substitute for CHM 2045C.		
c. Select three from among the following:		9 hrs
STA 4641	Risk Theory & Decision	
STA 4163	Statistical Methods II	
STA 4164	Statistical Methods III	
STA 4676	Life Testing Analysis	
STA 4675	Demographic Statistics	
STA 4187	Theory of Graduation	
STA 4939	Problems in Actuarial Science	
STA 5139	Credibility Theory and Loss Distributions	
STA 5646	Casualty Insurance	

4. Restricted Upper Division Electives (6 hrs)

- Select from upper division or graduate statistics, actuarial science, or mathematics courses
- Selected courses in business Business courses may be used only with prior approval by the Department of Statistics and Actuarial Science
- The following cannot be used: MAC 2233, MAC 2253, MAC 2254, all MAE courses; and MHF 4404

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each STA course.
- Computer competency met by COP 3502C.
- Take SOA Exam P (Probability) and report the score to the department

- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Mathematics, Mathematics Education, Statistics

Related Minors: Statistics, Mathematics

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- COP 3502C*: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C*: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Math test See catalog 0

Freshman Year

	Fall	Spring
ECO 2013 Prin of Macroeco	3	ENC 1102 Composition II 3
ENC 1101 Composition I	3	ECO 2023 Prin of Microeco 3
MAC 2311 Calc Anal Geo I	4	MAC 2312 Calc Anal Geo II 4
STA 2023 Stat Methods I	3	BSC 2010C Biology I 4

Sophomore Year

	Fall	Spring
COM 1000* req# 1A3-GEP	3	ACG 2021 Prin of Fin Acc 3
PHY 2053C* req# 1E1-GEP	4	EUH 2001* req# 1B1-GEP 3
MAC 2313 Calc Anal Geo III	4	STA 4942 Pract in Act Sci 3
ACG 2071 Prin of Mangr Acc	3	ENC 3241 Wr the Tech Prof 3
STA 4321 Stat Theory I	3	STA 4322 Stat Theory II 3

Junior Year

	Fall	Spring
FIN 3403 Business Finance	3	PSY 2012* req# 1D2-GEP 3
STA 4183 Theory of Interest	3	COP 3502C Computer Science I 3
MAS 3105* req# 3a-Core	4	STA 4942 Pract in Act Sci 3
STA 4222* req# 4-ResElect	3	BSC 2011C* req# 3b-Core 4
		STA 4163* req# 3c-Core 3

Senior Year

	Fall	Spring
COT 4500 Numerical Calculus	3	MUL 2010* req# 1B2-GEP 3
STA 4130 Life Cont I	3	STA 4131 Life Cont II 3
STA 4672 Act Stat Methods	3	STA 4939* req# 3c-Core 3
STA 4641* req# 3c-Core	3	Elective* Check restrictions 4
STA 4102* req# 4-ResElect	3	Elective* Check restrictions 4

UCF Degree Programs

ADVERTISING/PUBLIC RELATIONS (B.A.)

College of Sciences

Nicholson School of Communication

COM 250, 407-823-2829

<http://communication.cos.ucf.edu/adpr>

E-mail: ad-pr@ucf.edu

Contact: Bob Davis

Admission Requirements

- Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission. Deadlines are:

October 1 to be admitted the next Spring term
February 1 to be admitted the next Summer term
July 1 to be admitted the next Fall term

- Admission is based on multiple factors, not strictly GPA.
- Attain an overall minimum 2.25 GPA based on a minimum of 45 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies somewhat with the quality of applicants, but for previous acceptance periods, the minimum GPA did not drop below 3.3.
- Have acceptable keyboard skills.
- Receive a positive evaluation by the School.

Degree Requirements

- Students who change degree programs (other than from Ad/Pr Pending) and select this major must adopt the most current catalog.
- Co-op credit can be used in the major with advisor's approval
- Students should consult with a departmental advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 (or 43 if a GEP speech class was taken at UCF) of the 120 hours may be taken within the Nicholson School of Communication.
- Students electing to complete a minor must select the minor from outside the Nicholson School of Communication to remain below the 40 credit hour school maximum
- A maximum of six credit hours of internship may be earned in one semester. A total of nine credit hours of internship may be earned within the 120 credit hours required for graduation
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations		
Select ENC 1101 & ENC 1102		6 hrs
Select SPC 1600 <i>or</i> SPC 1016		3 hrs
B. Cultural and Historical Foundations		9 hrs
C. Mathematical Foundations		
Prefer MGF 1106 (may substitute a higher level math)		3 hrs
Select STA 2014C		3 hrs
D. Social Foundations		6 hrs
E. Science Foundations		6 hrs

2. Common Program Prerequisites (0 hrs) GEP

Select one course	
SPC 1016	Fund of Technical Presentations <i>or</i>
SPC 1600	Fund Oral Communication

3. Core requirements (27 hrs)

STA 2014C	Principles of Statistics	GEP
ADV 3008	Principles of Advertising	3 hrs
ADV 4101	Advertising Copywriting	3 hrs
COM 3110	Business and Prof Communication	3 hrs
COM 3311	Communication Research Methods	3 hrs
MMC 4411	Ad/PR Campaigns	3 hrs
MMC 3200	Mass Communication Law	3 hrs
PUR 3100	Writing for Public Relations	3 hrs
PUR 4000	Public Relations	3 hrs

Select one
PUR 4941 Internship
ADV 4941 Internship

3 hrs

4. School Exit Requirements

- To avoid delaying graduation, the student must request a review of requirements before registering for the last term.
- Achieve an overall "C" GPA (2.0) in required UCF Ad/PR courses. This GPA does not include electives.
- Computer Competency met by CGS 1060C, STA 2014C or departmental assessment.
- Before applying to graduate, the CLAST must be completely satisfied.

5. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. External Restricted Electives (variable)

Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Marketing
Related Minors: Business, Psychology

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year			
Fall			
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	STA 2014C Prin of Statistics	3
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1120* req# Lang/Elect	4	Elective* Check restrictions	3
		SPN 1121* req# Lang/Elect	4

Sophomore Year			
Fall			
BSC 1005* req# 1E2-GEP	3	CHM 1020* req# 1E1-GEP	3
EUH 2000* req# 1B1-GEP	3	EUH 2001* req# 1B2-GEP	3
POS 2041* req# 1D1-GEP	3	REL 2300* req# 1B3-GEP	3
SPC 1600* req# 1A3-GEP	3	SYG 2000* req# 1D2-GEP	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3
		Application See catalog	0

Junior Year			
Fall			
ADV 3008 Principles of Ad	3	COM 3110 Bus Prof Com	3
PUR 4000 Public Relations	3	COM 3311 Com Res Methods	3
Restricted* req# Res Elect	3	MMC 3200 Mass Com Law	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3

Senior Year			
Fall			
ADV 4101 Ad Copywriting	3	MMC 4411 Ad/Pr campaigns	3
PUR 3100 Wr for Pub Reltn	3	PUR 4941 or ADV 4941	3

Grad Review See catalog.	0	Restricted* req# Res Elect	3
Restricted* req# Res Elect	4	Restricted* req# Res Elect	3
Restricted* req# Res Elect	3	Restricted* req# Res Elect	3
Restricted* req# Res Elect	3		

AEROSPACE ENGINEERING (B.S.A.E.)

**College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering
Department**

ENGR 307, 407-823-2416; Fax 407-823-0208

<http://www.mmae.ucf.edu>

Associate Chair: Dr. Kuo-Chi Lin, E-mail: klin@mail.ucf.edu;

Undergraduate Advisor: Waheeda Illasarie;

E-mail: willasar@mail.ucf.edu

Admission Requirements: none

1. UCF General Education Program for Engineering Students (36+2 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs **A** through **E**, below to minimize excess hours. Students transferring to UCF from the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, <i>or</i> LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Take Prefer ECO 2013 <i>or</i> ECO 2023.	
2. Take ANT 2000, PSY 2012, <i>or</i> SYG 2000.	
E. Science Foundations	7 hrs
1. Take Select PHY 2048/48L (PR: MAC 2311).	
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, <i>or</i> MCB 1310	

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **To enroll in MMAE major courses, a 2.0 (C or better) in each course is required for those courses in section 2. marked with an asterisk (*).** Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440*	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311*	Calculus with Analytic Geometry I	GEP
MAC 2312*	Calculus with Analytic Geometry II	4 hrs
MAC 2313*	Calculus with Analytic Geometry III	4 hrs
MAP 2302*	Differential Equations	3 hrs
PHY 2048/48L*	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities <i>or</i> Social Sciences	GEP

3. Courses Required for the Major (55 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3343	Thermodynamics	3 hrs
EMA 3706	Structure & Properties of Aerospace Materials	3 hrs

EGN 3373	Principles of Electrical Engng	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EAS 3010	Fundamentals of Aerospace Flight	3 hrs
EAS 3101	Fundamentals of Aerodynamics	3 hrs
EAS 3800C	Aerospace Engineering Measurements	3 hrs
EAS 3810C	Design of Aerospace Experiments	2 hrs
EAS 4105	Flight Mechanics	3 hrs
EAS 4134	High-Speed Aerodynamics	3 hrs
EAS 4200	Flight Structures	3 hrs
EAS 3530	Space Systems Concepts	3 hrs
<i>or</i> EAS 4400	Spacecraft Attitude Dynamics	
<i>or</i> EAS 4505	Orbital Mechanics	
EAS 4300	Aerothermodynamics-Propulsion Sys	3 hrs
EML 3034	Modeling Methods in MMAE	3 hrs
EML 4312C	Feedback Control	3 hrs
EGM 3601	Solid Mechanics	3 hrs
EAS 4210	Space Structural Design	3 hrs

4. Approved Technical Electives (10 hrs)

Technical electives are available in the BSAE program to address specific student interests in a variety of technical areas. Students must consult with their assigned academic advisor for a list of the approved technical electives and the semesters when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

These courses are a capstone experience to your engineering program and should be completed in your last 2 major semesters of study.

■ EAS 4700C	Aerospace Design I	3 hrs
<i>or</i> EGN 4412C	Interdisciplinary Design I	
■ EAS 4710C	Aerospace Design II	3 hrs
<i>or</i> EGN 4413C	Interdisciplinary Design II	

CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

Related Minors: Space Studies, Intelligent Robotic Systems, Engineering Leadership.

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
- EGN 1006C and EGN 1007C are required courses for incoming freshman students only. The two credit hours for these courses may be substituted by an approved Aerospace Engineering technical elective for transfer students.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Aerospace Engineering - 128 semester hours required

FIRST YEAR			
Fall	12 hrs ¹	Spring	15 hrs ¹
*ENC 1101 English Comp I	3	EGN 1007C: Eng Conc/Meth	1
*CHS 1440 Chem for Eng	4	*ENC 1102 English Comp II	3

UCF Degree Programs

<i>or</i> CHM 2045C w/lab		MAC 2312 Calculus II	4
MAC 2311 Calculus I	4	*PHY 2048 Phys Eng/Sci I w/lab	4
EGN 1006C Intro to Eng Prof	1	*SPC 1016 Tech Presentations	3
Summer	10 hrs^{1, 3}		
MAC 2313 Calculus III	4		
EMA 3706 Struct & Prop of Aerospace Mat'l	3		
*Social Foundations	3		
SECOND YEAR			
Fall	13 hrs¹	Spring	12 hrs
*Historical Foundations	3	EGN 3373 Prin Elec Eng	3
*MAP 2302 Diff Equations	3	EGN 3321 Engr Anal-Dynmcs	3
*PHY 2049 Phys Eng II w/lab	4	EGN 3343 Thermodynamics	3
EGN 3310 Engr Anal - Statics	3	EGM 3601 Solid Mechanics	3
Summer	9 hrs^{1, 3}		
*ECO 2013 or 2023 Macro <i>or</i> Micro	3		
*Historical Foundations	3		
STA 3032 Prob & Stats/Engrs			
THIRD YEAR			
Fall	15 hrs	Spring	15 hrs
EML 3034 Model Meth's MMAE	3	EAS 3101 Fund of Aerodyn	3
EAS 3010 Fund of Aerospace Flight	3	EAS 3810C Dsgn Aerosp Expr	2
EAS 3800C Aerosp Eng Msr	3	EAS 4210 Space Structural Dyn	3
Science Foundation	3	EAS 4505 Orbital Mechncs	3
EAS 4200 Flight Structures	3	<i>or</i> EAS 3530 Space Sys Concepts	
		<i>or</i> EAS 4400 Spacecraft Attitude Dyn	
		Approved technical elective	4
FOURTH YEAR			
Fall	12 hrs^{1, 2}	Spring	15 hrs
EML 4312C Feedback Control	3	EAS 4300 Aerotherm Prop Sys	3
EAS 4105 Flight Mechanics	3	EAS 4710C Aerosp Design II	3
EAS 4134 High-Spd Aerodyn	3	<i>or</i> EGN 4413C Interdiscipl Design II	
EAS 4700C Aerosp Design I	3	Cultural Foundations	3
<i>or</i> EGN 4412C Interdiscipl Design I		Approved technical elective	3
		Approved technical elective	3

Notes:

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- Students should view the MMAE website (<http://www.mmae.ucf.edu>) or consult with the MMAE Department in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
- The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
- Aerospace engineering students must earn at least 32 hours in residence at UCF.

IMPORTANT NOTICE

- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites. If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034 ("C" or FORTRAN recommended).
- If you are not ready to begin the calculus sequence upon entry to the Aerospace Engineering curriculum, it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

Accelerated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Accelerated BS/MS program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

ANIMATION TRACK in ART

See Art - Animation Track

ANTHROPOLOGY (B.A.)

College of Sciences

Department of Anthropology, PH 309, 407-823-2227

<http://www.cos.ucf.edu/anthropology>

E-mail: anthropology@ucf.edu

Contact: A. Chase; 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology.

Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

Admission Requirements:

none

Degree Requirements

- UCF students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Anthropology Department
- Students must maintain a grade of "C" (2.0) or better in all courses used for the major
- Co-op or internship credit cannot be used in the major without prior approval
- Students should consult with a departmental advisor
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program

(36 hrs)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| D. Social Foundations | |
| 1. Select a listed course | 3 hrs |
| 2. Select ANT 2000 | 3 hrs |
| E. Science Foundations | |
| 1. Select a listed course | 3 hrs |
| 2. Select ANT 2511 | 3 hrs |

2. Common Program Prerequisites

(0 hrs)

- | | | |
|-----------|----------------------|-----|
| ANT 2000* | General Anthropology | GEP |
| ANT 2511* | The Human Species | GEP |

*See Transfer Notes for possible substitutes

3. Core Requirements: Lower Level

(6 hrs)

- | | | |
|----------|-------------------------------|-------|
| ANT 2100 | Arch & the Rise of Human Cult | 3 hrs |
| ANT 2410 | Cultural Anthropology | 3 hrs |

4. Core Requirements: Upper Level

(12 hrs)

All students are required to take the following upper level courses in the four subdisciplines of Anthropology:

- | | | |
|----------|------------------------------------|-------|
| ANT 3145 | Archaeology of Complex Societies | 3 hrs |
| ANT 3640 | Language and Culture | 3 hrs |
| ANT 4034 | History of Anthropological Thought | 3 hrs |
| ANT 4586 | Human Origins | 3 hrs |

5. Area Study

(3 hrs)

All students are required to take one of the following courses:

- | | |
|----------|--|
| ANT 3158 | Florida Archaeology |
| ANT 3163 | Mesoamerican Archaeology |
| ANT 3164 | Ancient Incas |
| ANT 3168 | Maya Archaeology (or ANG 6168) |
| ANT 3311 | Indians of the SE US |
| ANT 3312 | Ethnology of North American Indians |
| ANT 3313 | Indians of N American High Plains |
| ANT 3314 | Indians of the Northeast Woodlands |
| ANT 3318 | Indians of the Northwest Coast |
| ANT 3320 | Indians of the Southwest |
| ANT 3319 | The Anthropology of Diaspora |
| ANT 4332 | Peoples and Culture of Latin America (or ANG 5307) |
| ANT 4340 | Caribbean Cultures (or ANG 5341) |
| ANT 3358 | Life and Death in Ancient Egypt |
| ANT 3363 | Anthropology of Japan |

ANT 4144	Prehistory of North America
ANT 4153	North American Archaeology
ANT 4352	African Societies and Cultures
ANT 4354	Postcolonial Africa
ANT 4308	Gender Issues in Latin America

6. Restricted Electives (18 hrs)

Six other Anthropology courses must be taken to complete the major. These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).

ANT 4101	Archaeological Sciences (or ANG 5100)
ANT 3115	Archaeological Method and Theory
ANT 3142	Old World Prehistory
ANT 4184	Mortuary Archaeology (or ANG 5741)
ANT 3212	Peoples of the World
ANT 3241	Magic, Ritual, and Belief
ANT 3245	Native American Religions
ANT 3262	Rural Society
ANT 3273	Law and Culture
ANT 3302	Sex, Gender, and Culture
ANT 3316	Black/Seminole Relationships
ANT 4438	Anthropology of Tourism (or ANG 5437)
ANT 4467	Nutritional Anthropology (or ANG 5467)
ANT 3541	Biobehavioral Anthropology
ANT 3550	Primateology
ANT 3701	Applied Anthropology
ANT 4702	Culture, Power, and Development (or ANG 5272)
ANT 4802	Ethnographic Field Methods
ANT 4180C	Seminar in Laboratory Analysis
ANT 4266	Economic Anthropology
ANT 4462	Medical Anthropology
ANT 4516	Human Biological Diversity
ANT 4521C	Forensic Anthropology
ANT 4525C	Human Osteology
ANT 4528C	Advanced Forensic Anthropology
ANT 4824	Advanced Archaeological Field Work
ANG 5165	Maya Field Research
ANG 5166	Problems of Maya Studies
ANG 5167	Maya Hieroglyphs
ANG 5228	Maya Iconography
ANG 5622	Language, Culture, and Pedagogy
ANG 5742	Problems in Forensic Anthropology

Departmental Exit Requirements

- A grade of "C" (2.0) or better in all courses used for the major
- Computer Competency met by ANT 2100
- Students will be required to take a standard exit exam.
- Before applying to graduate, the CLAST must be completely satisfied.

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

10. University Minimum Exit Requirements

- A "C" (2.0) GPA in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Graduate Certificate in Maya Studies

Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Judaic Studies, Latin American, Caribbean, and Latino Studies, Russian Area Studies, Sociology, and Women's Studies

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses

- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- ANT 2000: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANT 2511: any ANT course. However, ANT 2511 will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring
ANT 2000 General Anthro	3 ANT 2511 The Human Species
ENC 1101 Composition I	3 ARH 2050* req# 1B2-GEP
EUH 2000* req# 1B1-GEP	3 ENC 1102 Composition II
MAC 1105 College Algebra	3 POS 2041* req# 1D1-GEP
COM 1000* req# 1A3-GEP	3 STA 2014C* req# 1C2-GEP

Sophomore Year

Fall	Spring
REL 2300* req# 1B3-GEP	3 PSC 1121* req# 1E1-GEP
ANT 2100 Arch the of	3 ANT 3640 Language and Cult
ANT 2410 Cult Anthro Anthro	3 ANT 4034 His of Anthro Tht
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

Junior Year

Fall	Spring
ANT 3145 Arch of Cmplx Soc	3 ANT 4586 Human Origins
ANT 3142* req# 6-ResElect	3 ANT 3164* req# 5-Area
Elective* Check restrictions	3 ANT 3212* req# 6-ResElect
Elective* Check restrictions	3 Elective* Check restrictions
SPN 1120* req# Lang/Elect	4 SPN 1121* req# Lang/Elect

Senior Year

Fall	Spring
ANT 3302* req# 6-ResElect	3 ANT 3312* req# 6-ResElect
Elective* Check restrictions	3 ANT 3320* req# 6-ResElect
Elective* Check restrictions	3 ANT 3541* req# 6-ResElect
Elective* Check restrictions	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

APPLIED SCIENCE (B.A.S.)

A.S. to B.A.S.

Note: For detailed information about this program, see description in the AS to BS Programs section

ART (B.F.A.)

College of Arts and Humanities

Art Department, VAB 117, 407-823-2676

<http://www.art.ucf.edu/>

E-mail: art@ucf.edu

Contact: J. Chavda, 407-823-2676

The BFA degree is recommended for studio art majors who plan to attend graduate school.

Note: Although the department maintains a small computer lab for student use, Graphic Design majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Admission Requirements

- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses. The Spring review takes place in the first week of March. The Fall review takes place in the first week of October.
- Graphic Design students must satisfactorily complete the

UCF Degree Programs

mandatory Graphic Design Portfolio Review for admission to this restricted access program, to be admitted in the following Fall. The application deadline is April 1 for Fall admission.

- Students unable to satisfactorily complete either above requirement, ART 3950 – Portfolio Review or the Graphic Design Portfolio Review, may continue in the Art Department in the Art History track.
- Students may enter the BFA Program as early as the first semester of their Junior year. If they have a 3.0 overall average in ART courses, they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.
- "D" grades from other institutions do not meet departmental requirements.
- Note: Individual portfolio reviews are not possible due to the large number of applicants to the program.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- BFA students must maintain a 3.0 GPA in all ART courses.
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor in their studio specialization
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
Select a course from group B.1 3 hrs
Select ARH 2050 3 hrs
Select ARH 2051 3 hrs
- C. Mathematical Foundations
Prefer MGF 1106 3 hrs
(may substitute a higher level math)
Prefer STA 1060C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (24 hrs)

- ART 2201C Design Fundamentals 2-D 3 hrs
ART 2203C* Design Fundamentals 3-D 3 hrs
ART 2300C* Drawing Fundamentals I 3 hrs
ART 2301C* Drawing Fundamentals II 3 hrs
ARH 2050 History of Western Art I GEP
ARH 2051 History of Western Art II GEP
GRA 2101C* Intro to Computer Art 3 hrs

Any ART prefix, studio, or media courses at the 2000-4000 levels

*See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)

- ART 2820 Art as Interface 3 hrs
ARH 2500 Survey of Non-Western Art 3 hrs
ART 3950 Portfolio Review 0 hrs

4. Restricted Electives (42 hrs)

a. Specialization: 18 hrs

- Select six upper division courses from one area: (classes with an asterisk may be repeated for credit)
- Book Arts (ART 3176 The Illuminated Book, ART 3175 Advanced Issues in Contemporary Book Arts, ART 3170 Book Binding, ART 3171 Materials for Artist Books, ART 3737 Narrative Sculpture, ART 4172 Book Repair and Restoration, ART 4644 Books Without Books, ART 4723 Commercial Book Design and Publishing, ART 4173 The Artist Book, ART 4174 The Printed Book)
- Ceramics (ART 3760C, ART 3764C, ART 4783C*)
- Drawing (ART 3332C, ART 4320C*)
- Drawing/Printmaking Combination (ART 3332C, ART 4320C*, ART 3433C, ART 4402C*)
- Drawing/Illustration Combination (ART 3332C, GRA 3151C, ART 4320C*, GRA 4154C*)
- Graphic Design (GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 4197C*, GRA 4802C)
- Painting (ART 3504C, ART 4505C*)

Photography (PGY 3410C, PGY 4420C*, PGY 4440C)
Sculpture (ART 4710C*).

*may be repeated for credit

b. Elective in Art: 15 hrs

Select five Art courses; two of which may be lower division. Select from at least three of the following areas, excluding the area of specialization.

Animation, Ceramics, Drawing, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

c. Additional Electives 9 hrs

Select three upper-division Art History courses

or

Select one upper division course in Art History, Humanities, and Social Science.

(A maximum of six hours of Independent Study, Practicum, and Internship are permitted).

5. Departmental Exit Requirements (3 hrs)

ART 4935 BFA Exhibit/Seminar required, except for Graphic Design specialization

(BFA Exhibit Seminar is only offered during Spring Semester)

- Achieve at least a "B" GPA (3.0) overall in courses within the major
- Each senior is required to submit a portfolio of representative work in the student's specialization, for review and approval by faculty, during their last semester of matriculation toward the degree
- Computer Competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Art History, Studio Art (BA), Art Education, Animation, Digital Media

Related Minors: Partners in Visual Art Education

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- GRA 2101C*: A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring		
ARH 2050 His of West Art I	3 ARH 2051 His of West Art II	3	
ENC 1101 Composition I	3 ENC 1102 Composition II	3	
HUM 2210* req# 1B1-GEP	3 STA 1060C Stat Using Excel	3	
MGF 1106* req# 1C1-GEP	3 ART 2201C Design Fund 2 D	3	
ART 2820 Art as Interface	3 Elective* Check restrictions	3	

Sophomore Year

Fall	Spring		
COM 1000* req# 1A3-GEP	3 ANT 2000* req# 1D2-GEP	3	
POS 2041* req# 1D1-GEP	3 BSC 1005* req# 1E2-GEP	3	
ART 2203C Design Fund 3 D	3 CHM 1020* req# 1E1-GEP	3	
ART 2300C Drawing Fund I	3 ART 2301C Drawing Fund II	3	
GRA 2101C Intro to Comp Art	3 ARH 2500 His of West Art	3	
	ART 3950 Portfolio Review	0	

Junior Year

Fall	Spring		
ART 2500C* req# 2-CPP	3 ART 3161* req# 3-Core	3	
ART 3332C* req# 4a. Spec	3 ART 4320C* req# 4a. Spec	3	
ART 4320C* req# 4a. Spec	3 FIL 3286C* req# 4b. ResEI	3	
GRA 3151C* req# 4a. Spec	3 ARH 4800* req# 4c. ResEI2	3	
SPN 1120* req# Lang/Elect	4 SPN 1121* req# Lang/Elect	4	
Application See catalog		0	

Senior Year

Fall	Spring		
GRA 4154C* req# 4a. Spec	3 GRA 4154C* req# 4a. Spec	3	
ART 2754C* req# 4b. ResEI	3 ART 3760C* req# 4b. ResEI	3	
PGY 2401C* req# 4b. ResEI	3 PGY 4420C* req# 4b. ResEI	3	
ARH 4450* req# 4c. ResEI2	3 ARH 4430* req# 4c. ResEI2	3	
Elective* Check restrictions	1 ART 4935 BFA Exh Seminar	3	

ART - ANIMATION TRACK (B.F.A.)

College of Arts and Humanities

Animation, VAB 210, 407-823-3110

<http://www.art.ucf.edu/>

E-mail: animation@ucf.edu

Contact: K. Kovach 407-823-2983

Note: Although the department maintains a small computer lab for student use, Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Admission Requirements

- Animation students must successfully complete an Animation Portfolio Review to be admitted to this restricted access program. The Animation Portfolio Review submission deadline is March 15 for admission in the following Fall semester, and October 15 for admission in the following Spring semester.
- Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.
- Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA program.
- Students must maintain an overall minimum 3.0 GPA in ART 2201C and ART 2300C.
- Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.

Note: Unfortunately, individual reviews are not possible due to the large number of applicants to this program.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Grades below "C" (2.0) in lower level courses do not satisfy major requirements
- Co-op credit cannot be used in the major
- "D" grades from other institutions do not meet departmental requirements. Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses

taken within the UCF Art and Film programs. Nine of these must be in Animation specialization.

- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
 - Select a course from group B.1 3 hrs
 - Select ARH 2050 3 hrs
 - Select ARH 2051 3 hrs
- C. Mathematical Foundations 3 hrs
 - Prefer MGF 1106 3 hrs
 - (may substitute a higher level math)
 - Prefer STA 1060C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (18 hrs)

- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2203C* Design Fundamentals 3-D 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ART 2301C Drawing Fundamentals II 3 hrs
- ARH 2050 The History of Western Art I GEP
- ARH 2051 The History of Western Art II GEP
- GRA 2101C* Intro to Computer Art 3 hrs
- ART 2XXX-4XXX any ART prefix, studio, media courses 3 hrs

*See Transfer Notes for possible substitutes

3. Core Requirements (12 hrs)

- ART 2820 Art as Interface 3 hrs
- ARH 2500 Survey of Non-Western Art 3 hrs
- Any two upper level Art or Film History courses 6 hrs

4. Animation Upper Division Courses (18 hrs)

- ART 3643C Digital Effects and Compositing 3 hrs
- FIL 3286C Introduction to Animation 3 hrs
- FIL 3287C Intermediate Animation 3 hrs
- FIL 3410 History of Animated Films 3 hrs
- FIL 4288C Advanced Animation 3 hrs
- FIL 4289C* Animation Workshop 3 hrs

*Workshops may be repeated

5. Restricted Electives Elective in Art (15 hrs)

Select five courses; two of which may be lower division
Select from at least three of the following areas, excluding the area of specialization:

- Ceramics, Drawing, Drawing/Printmaking
- Illustration, Painting, Photography, Printmaking,
- Sculpture, and Special Topics Studio Courses.

6. Departmental Exit Requirements

- ART 4971 Thesis 3 hrs
- Achieve at least a 3.0 average in required art and film courses
- Computer Competency met by CGS 1060C or GRA 2101C

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Art, Art Education, Art History, Film Production/Screen writing, Radio/TV

UCF Degree Programs

Related Minors: Art, Digital Media, Film

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools, and in-state senior institutions must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- GRA 2101C*: A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring
ARH 2050 His of West Art I	3 ARH 2051 His of West Art II
ENC 1101 Composition I	3 CGS 1060C Intro to Comp Sci
HUM 2210* req# 1B1-GEP	3 ENC 1102 Composition II
MGF 1106* req# 1C1-GEP	3 ART 2201C Design Fund 2 D
ART 2820 Art as Interface	3 Elective* Check restrictions

Sophomore Year

Fall	Spring
COM 1000* req# 1A3-GEP	3 BSC 1005* req# 1E2-GEP
POS 2041* req# 1D1-GEP	3 CHM 1020* req# 1E1-GEP
ART 2203C Design Fund 3 D	3 ART 2301C Drawing Fund II
ART 2300C Drawing Fund I	3 ART 2394* req# 2-CPP
GRA 2101C Intro to Comp Art	3 FIL 3286C Intro to Animation

Junior Year

Fall	Spring
ART 3161* req# 3-Core	3 FIL 3287C Int Animation
GRA 3151C* req# 3-Core	3 FIL 3410 His of Ani Films I
ART 3643C Dig Effects Compst	3 ART 3332C* req# 5-ResEl
PGY 2401C* req# 5-ResEl	3 ART 4320C* req# 5-ResEl
SPN 1120* req# Lang/Elect	4 SPN 1121* req# Lang/Elect
Application See catalog	0

Senior Year

Fall	Spring
ARH 2500 His of West Art	3 ANT 2000* req# 1D2-GEP
FIL 4288C Advanced Animation	3 FIL 4289C Animation Workshop
PGY 3410C* req# 5-ResEl	3 PGY 4420C* req# 5-ResEl
Elective* Check restrictions	4 ART 4971 Senior Thesis
Elective* Check restrictions	3 Elective* Check restrictions

ART - HISTORY TRACK (B.A.)

College of Arts and Humanities

Art Department, VAB 117, 407-823-2676

<http://www.art.ucf.edu/>

E-mail: art@ucf.edu

Contact: M. Gonzalez, 407-823-4995

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in lower level courses do not satisfy major requirements
- Co-op credit cannot be used in the major
- Students should consult with a departmental art history advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of ARH specialization.
- Courses designated in 1 (General Education Program) and 2

(Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
 - Prefer a course from group B. 1 3 hrs
 - Select ARH 2050 History of Western Art I 3 hrs
 - Select ARH 2051 History of Western Art II 3 hrs
- C. Mathematical Foundations
 - Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (12 hrs)

- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ARH 2050 History of Western Art I GEP/3 hrs
- ARH 2051 History of Western Art II GEP/3 hrs

3. Core Requirements (18 hrs)

- ARH 2500 Survey Non-Western Art 3 hrs
- ARH 4310 Italian Renaissance Art 3 hrs
- ARH 4430 Nineteenth Century Art 3 hrs
- ARH 4450 Twentieth Century Art 3 hrs
- ARH 4800 Theory and Criticism of Visual Arts 3 hrs
- ENC 3311 Advanced Expository Writing 3 hrs

4. Restricted Electives (21 hrs)

- a. One Non-Western Art History Course: 3 hrs
 - ARH 3520 African Art
 - ARH 4545 Art of India
 - ARH 4655 MesoAmerican Art
- b. One of the following courses: 3 hrs
 - ARH 4200 Medieval Art
 - ARH 4350 Baroque Art
 - ARH 4892 Women in Art
- c. Select 15 additional hours from following: 15 hrs
 - ARH 3471 Art in Last 25 Years
 - ARH 3520 African Art
 - ARH 3610 American Art
 - ARH 3710 History of Photography I
 - ARH 3711 History of Photography II
 - ARH 3720 History of Prints
 - ARH 4170 Greek and Roman Art
 - ARH 4350 Baroque Art
 - ARH 4655 MesoAmerican Art
 - ARH 4892 Women in Art
 - ARH 5897 Adv. Seminar in Art History
 - ARH 3XXX-4XXX Additional Art History course

5. Departmental Exit Requirements (4 hrs)

- ARH 4912 Senior Thesis 3 hrs
- ARH 4906 Comprehensive Exam 1 hr
- Achieve at least a "C" GPA (2.0) in courses within the major
- Computer Competency met by STA 1060C, GRA 2101C, or ARH 3820

6. Foreign Language Requirements (0-11 hrs)

Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to four semesters of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. German, French or Italian preferred, although other languages are acceptable with prior consent of advisor. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department. (A maximum of six hours of Independent Study, Practicum, and Internship are permitted).

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP,

- Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring	
ARH 2050 His of West Art I	3 ARH 2051 His of West Art II	3
ENC 1101 Composition I	3 ENC 1102 Composition II	3
HUM 2210* req# 1B1-GEP	3 STA 1060C Stat Using Excel	3
MGF 1106* req# 1C1-GEP	3 ARH 2500 His of West Art	3
ARH elective	3 Elective* Check restrictions	3

Sophomore Year

Fall	Spring	
COM 1000* req# 1A3-GEP	3 ANT 2000* req# 1D2-GEP	3
POS 2041* req# 1D1-GEP	3 BSC 1005* req# 1E2-GEP	3
ART 2201C Design Fund 2 D	3 CHM 1020* req# 1E1-GEP	3
ART 2300C Drawing Fund I	3 ARH 4545* req# 4a-ResEl	3
ENC 3311 Adv Exp Writing	3 SPN 1120* req# Lang/Elect	4

Junior Year

Fall	Spring	
ARH 4310 Italian Renais Art	3 ARH 4430 19th Century Art	3
ARH 4450 20th Century Art	3 ARH 4800 Thry Critic of Vis	3
ARH 3710* req# 4c-ResEl	3 ARH 3711* req# 4c-ResEl	3
ARH 4655* req# 4c-ResEl	3 Elective* Check restrictions	3
SPN 1121* req# Lang/Elect	4 SPN 2200* req# Lang/Elect	3

Senior Year

Fall	Spring	
ARH 4350* req# 4b-ResEl	3 ARH 4170* req# 4c-ResEl	3
ARH 4912 Senior Thesis	3 ARH 4906 Comprehensive exam	1
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

ART - STUDIO TRACK (B.A.)

College of Arts and Humanities

Art Department, VAB 117, 407-823-2676

<http://www.art.ucf.edu/>

E-mail: art@ucf.edu

Contact: J. Chavda, 407-823-2676

Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Degree Requirements

- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses. The Spring review takes place the first week of March. The Fall review takes place the first week of October.
- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.00) in lower level ART courses do not satisfy major requirements

- Co-op credit cannot be used in the major
- Students should consult with a departmental advisor in their specialization
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these hours must be in an area of specialization.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select a course from group B.1	3 hrs
Select ARH 2050 The History of Western Art I	3 hrs
Select ARH 2051 The History of Western Art II	3 hrs
Select a course from either group B.1 or B.2	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (24 hrs)

ART 2201C Design Fundamentals 2-D	3 hrs
ART 2203C* Design Fundamentals 3-D	3 hrs
ART 2300C Drawing Fundamentals I	3 hrs
ART 2301C Drawing Fundamentals II	3 hrs
ARH 2050 The History of Western Art I	GEP
ARH 2051 The History of Western Art II	GEP
GRA 2101C* Intro to Computer Art	3 hrs
ART 2XXX-4XXX any ART prefix, studio or media course	3 hrs

*See Transfer Notes for possible substitutes

3. Core (6 hrs)

ART 2820 Art As Interface	3 hrs
ARH 2500 History of Non-Western Art	3 hrs
ART 3950 Portfolio Review	0 hrs

4. Restricted Electives (27 hrs)

Specialization:

Select nine upper division courses from at least three areas:

- Art History (any upper level ARH courses)
- Book Arts (ART 3176 The Illuminated Book, ART 3175 Advanced Issues in Contemporary Book Arts, ART 3170 Book Binding, ART 3171 Materials for Artist Books, ART 3737 Narrative Sculpture, ART 4172 Book Repair and Restoration, ART 4644 Books Without Books, ART 4723 Commercial Book Design and Publishing, ART 4173 The Artist Book, ART 4174 The Printed Book)
- Ceramics (ART 3760C, ART 4783C*)
- Drawing and Printmaking (ART 3332C, ART 3433C, ART 4320C*, ART 4402C*)
- Illustration (GRA 3151C, GRA 4154C*)
- Painting (ART 3504C, ART 4505C*)
- Photography (PGY 2401C, PGY 4420C*, PGY 4440C)
- Sculpture (ART 2701C, ART 4710C*)
- The Artist Book (ART 4173)
- Type & Design (GRA 3113C)

*May be repeated for credit

5. Departmental Exit Requirement

- Achieve at least a "C" GPA (2.0) overall in courses within the major
- Computer Competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

(A maximum of six hours of Independent Study, Practicum, and Internship permitted.)

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded

UCF Degree Programs

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Art History, Studio Art (BFA), Art Education, Animation, Digital Media

Related Minors: Partners in Visual Art Education, Digital Media

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if take prior to transferring to UCF:

- GRA 2101C: may substitute 3 hours of any digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring		
ARH 2050 His of West Art I	3 ARH 2051 His of West Art II	3	3
ENC 1101 Composition I	3 ENC 1102 Composition II	3	3
HUM 2210* req# 1B1-GEP	3 STA 1060C Stat Using Excel	3	3
MGF 1106* req# 1C1-GEP	3 ART 2201C Design Fund 2 D	3	3
ART 2820 Art as Interface	3 Elective* Check restrictions	3	3

Sophomore Year

Fall	Spring		
COM 1000* req# 1A3-GEP	3 ANT 2000* req# 1D2-GEP	3	3
POS 2041* req# 1D1-GEP	3 BSC 1005* req# 1E2-GEP	3	3
ART 2203C Design Fund 3 D	3 CHM 1020* req# 1E1-GEP	3	3
ART 2300C Drawing Fund I	3 ART 2301C Drawing Fund II	3	3
GRA 2101C Intro to Comp Art	3 ARH 2500 His of West Art	3	3
	ART 3950 Portfolio Review	0	0

Junior Year

Fall	Spring		
ART 3332C* req# 4-ResElect	3 ART 3161* req# 2-CPP	3	3
GRA 3151C* req# 4-ResElect	3 ART 4320C* req# 4-ResElect	3	3
Elective* Check restrictions	1 Elective* Check restrictions	3	3
Elective* Check restrictions	3 Elective* Check restrictions	3	3
SPN 1120* req# Lang/Elect	4 SPN 1121* req# Lang/Elect	4	4

Senior Year

Fall	Spring		
ARH 4350* req# 4-ResElect	3 ARH 4430* req# 4-ResElect	3	3
ART 4320C* req# 4-ResElect	3 GRA 4154C* req# 4-ResElect	3	3
PGY 3410C* req# 4-ResElect	3 PGY 4420C* req# 4-ResElect	3	3
Elective* Check restrictions	3 Elective* Check restrictions	3	3
Elective* Check restrictions	3 Elective* Check restrictions	3	3

ART EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://pegasus.cc.ucf.edu/~arted>

Program Coordinator: Dr. Thomas Brewer, ED 122-U, 407-823-3714, E-mail: tbrewer@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses and Other Program Prerequisites with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education), 2. (Education Common Program Prerequisites), and 3. (Other Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program*

A. Communication Foundation	(36 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation	(9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877	3 hrs
2. Select: ARH 2050 History of Western Art I (A grade of "C-" (1.75) or better is required in ARH 2050)	3 hrs
3. Prefer: AMH 2020 U.S. History 1877-present	3 hrs
C. Mathematical Foundation	(6 hrs)
1. Prefer: MGF 1106 Finite Mathematics	3 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel <i>or</i> STA 2014C Principles of Statistics	3 hrs
D. Social Foundation	(6 hrs)
1. Prefer: POS 2041 American National Government	3 hrs
2. Prefer: PSY 2012 General Psychology	3 hrs
E. Science Foundation	(6 hrs)
1. Prefer: PSC 1121 Physical Science	3 hrs
2. Prefer: ANT 2511 The Human Species <i>or</i> BSC 1005 Biological Principles	3 hrs

*Note: students are strongly advised to take the preferred courses.

2. Education Common Program Prerequisites

EDF 2005 Introduction to Education	(9 hrs)	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs	
EME 2040 Technology for Educators	3 hrs	

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Prerequisites

*ARH 2050 History of Western Art I	(30 hrs)	GEP
*ARH 2051 History of Western Art II	3 hrs	
*ART 2201C Designs Fundamentals I	3 hrs	
*ART 2203C Designs Fundamental II	3 hrs	
*ART 2300C Drawing Fundamentals I	3 hrs	
*ART 2301C Drawing Fundamentals II	3 hrs	
*GRA 2101C Intro to Computer Graphics	3 hrs	
ART 2754C Ceramics	3 hrs	
ART 2500C Painting	3 hrs	
ART 2400C Printmaking	3 hrs	
PGY 2401C Photography	3 hrs	

*Prerequisites for all 3000 and 4000 core and elective ARE and ART courses.

4. Education Core Requirements

EDG 4410 Teaching Strategies and Classroom Mgmt	(15 hrs)	3 hrs
EDF 4467 Learning Theory and Assessment	3 hrs	
EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs	
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools	3 hrs	
RED 4043 Content Reading Kindergarten through Grade 12	3 hrs	

- Prior to Internship I, the student must have completed EDG 4410 Teaching Strategies and Classroom Management and at least 50% of all required art courses indicated above with a letter grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED

4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.

5. Internship I (3 hrs)
ESE 3940 Internship I 3 hrs

6. Specialization Requirements (12 hrs)

ARE 4356	Teaching Art Appreciation & Criticism	3 hrs
ARE 4351	Teaching Art in the Elementary School	3 hrs
ARE 4352	Teaching Art in the Secondary School	3 hrs
ARE 4250	Art for Exceptionalities	3 hrs

7. Restricted Electives (9 hrs)

Any 3000 or 4000 level ART, ARE, ARH, PGY (with advisor's approval)

- Passing score on the Subject Area Examination (Art K-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- All art courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

8. Internship II Block (13 hrs)

ESE 4943	Internship II K-12	12 hrs
ESE 4942	Internship II Seminar Secondary	1 hr

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 40 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Program Semester Hours Required 127 hrs

Consult with your Education advisor and review your degree audit for more recent information.

13. Recommended Four Year Sequence of Course

Freshman Year			
Fall	(15 hrs)	Spring	(12 hrs)
EDF 2005 Intro to Education	3	ARH 2051 History of Western Art II	3
ENC 1101 English Composition I	3	EDG 2701 Teaching Diverse Pop	3
MGF 1106 Finite Mathematics	3	ENC 1102 English Composition II	3
ARH 2050 The History of Art I	3	ART 2201C Designs Fund I	3
PSY 2012 General Psychology	3		
Summer	(6 hrs)		
EME 2040 Teach for Educators	3		
SPC 1600 Fund of Oral Comm	3		

Sophomore Year

Fall	(12 hrs)	Spring	(15 hrs)
AMH 2010 US History 1492-1877	3	AMH 2020 US History 1877-Present	3
ART 2203C Designs Fundamental II	3	ART 2400C Printmaking	3
BSC 1005 Biological Principles	3	ART 2300C Fundamentals I	3
STA 2014C Principles of Statistics	3	POS 2041 Amer National Govt	3
STA 1060C Basic Stat using MS Excel	3	PSC 1121 Physical Science	3
Summer	(6 hrs)		
GRA 2101C Intro to Comp Graphics	3		
PGY 2401C Photography	3		

Junior Year

Fall	(15 hrs)	Spring	(15 hrs)
ARE 4356 Teach Art Apprec & Critic	3	ARE 4352 Teach Art in the Sec Sch	3
ART 2301C Drawing Fund II	3	ART 2500C Painting	3
EDF 4467 Learn Theory & Assmt	3	RED 4043 Content Read K-12	3
EDG 4410 Teach Strat & Class Mgmt	3	Restricted electives	6
TSL 4080 Theory & Prac of Teach ESOL	3	(Any ARE/ARH/ART/PGY 3/4XXX with Advisor approval)	
Students in Schools			
Summer	(6 hrs)		
ART 2754C Ceramics	3		
Restricted elective	3		
(Any ARE/ARH/ART/PGY 3/4XXX with Advisor approval)			

Senior Year

Fall	(12 hrs)	Spring	(13 hrs)
ARE 4351 Teach Art in the Elem Sch	3	ESE 4943 Intern II K-12	12
EDF 4603 Anal & Appl of Eth, Legal, & Safety Issues in Sch	3	ESE 4942 Intern II Seminar Sec	1
ARE 4250 Art for Exceptionalities	3		
ESE 3940 Internship I	3		

BIOLOGY (B.S.)

College of Sciences

Biology Department, BL 301, 407-823-2141

<http://www.cos.ucf.edu/biology>

E-mail: biology@ucf.edu

Contact: F. Logiudice, 407-823-2141

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- Co-op or internship credit cannot be used in this major
- No more than 4 hours of BSC 4422L, BSC 4937, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 22 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization in the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations	
1. Select ENC 1101 and ENC 1102	6 hrs
2. Prefer SPC 1016	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311 or MAC 2241	4 hrs
2. Select STA 2023	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select CHM 2045C or CHM 2040C & 2041C	4 hrs
2. Select BSC 2010C	4 hrs

2. Common Program Prerequisites (16 hrs)

BSC 2010C*	Biology I	GEP
BSC 2011C*	Biology II	4 hrs
Select one Calculus course		GEP
MAC 2311*	Calculus w/ Analy Geometry I	

UCF Degree Programs

MAC 2241	Calculus for Life Sciences	
STA 2023*	Statistical Methods I	GEP
CHM 2045C+	Chem Fund I	GEP
CHM 2046&L	Chem. Fund II & lab	4 hrs
Select one Physics sequence with labs*		8 hrs
PHY 2053C	College Physics I and	
PHY 2054C	College Physics II	
<i>or</i>		
PHY 2048&L	Physics Engr. & Sci. I & Lab and	
PHY 2049&L	Physics Engr. & Sci. II & Lab	

*See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core requirements (21-23 hrs)

Select one Chemistry sequence		
CHM 2210	Organic Chem. I, and	3 hrs
CHM 2211&L	Organic Chem. II & lab	5 hrs
<i>or</i>		
CHM 3120	Analytical Chemistry, and	5 hrs
CHM 2205	Intro Organic & Biochemistry	5 hrs
PCB 3044	Principles of Ecology	3 hrs
PCB 3063	Genetics	3 hrs
PCB 3023	Molecular Cell Biology	3 hrs
PCB 4683	Population Biol & Evolution	4 hrs

(Note: Students planning on entering professional or graduate school should take Biochemistry (BCH 4053, BCH 4054) as well as additional Calculus courses. Students are urged to consult their departmental advisor.)

4. Upper Division Restricted Electives (22 hrs)

- Courses must be selected from the groupings listed below.
- Student must complete at least one course dealing exclusively with animals (marked 'a') and one course dealing exclusively with plants (marked 'b').
- At least three credit hours from each group must be completed.
- At least 10 hours of the Upper Division Restricted Electives must be taken within the UCF Biology Department. Courses offered by the Department of Biology have been designated with an asterisk (*).
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- Courses at the 5000 level are only open to seniors and beginning graduate students.

4.1 Form/Function (minimum of one lecture course)

BCH 4053	Biochemistry I	3 hrs
BCH 4054	Biochemistry II	3 hrs
b BOT 4223C*	Plant Anatomy	4 hrs
b BOT 4303C*	Plant Kingdom	5 hrs
b BOT 4503*	Plant Physiology	3 hrs
BSC 4101*	History of Biology	3 hrs
a BSC 4454*	Research in Animal Physiology	2 hrs
PCB 3063L*	Genetics Laboratory	1 hr
PCB 3233	Immunology	3 hrs
PCB 3024L*	Molecular Cell Biology Laboratory	2 hrs
PCB 3703C	Human Physiology	4 hrs
PCB 4514*	Genetics II	3 hrs
PCB 4524	Molecular Biology II	3 hrs
a PCB 4723*	Animal Physiology	4 hrs
PCB 4683L*	Population Bio and Evolution Lab	1 hr
PCB 6107C*	Adv Cell Biology	4 hrs
b PCB 6108*	Concepts in Plant Cell Biology	4 hrs
a PCB 6256C*	Adv Develop Biology	4 hrs
PCB 6556 *	Conservation Genetics	3 hrs
PCB 6565C*	Human Genetics	4 hrs
a ZOO 3713C*	Comparative Vert Anatomy	5 hrs
ZOO 3733C	Human Anatomy	4 hrs
a ZOO 4603C*	Embryology/Development	5 hrs
a ZOO 4753C	Vertebrate Histology	4 hrs

4.2 Environmental (minimum of one lecture course)

b BOT 3152C*	Local Flora	3 hrs
b BOT 3800*	Ethnobotany	3 hrs
b BOT 4156C*	Florida Wildflowers	4 hrs
b BOT 4686C*	Conserv & Mangmt of Native Plants	4 hrs
b BOT 6623C*	Plant Geography & Ecology	4 hrs
BSC 4312C*	Marine Biology	4 hrs
PCB 3044L*	Ecology Laboratory	1 hr
PCB 3304C*	River Ecology	4 hrs
PCB 3355C*	Tropical Marine Biology	2 hrs
PCB 3442*	Florida Aquatic Ecology	3 hrs
PCB 4302C*	Physicochemical Limnology	4 hrs
PCB 4303C*	Biological Limnology	4 hrs

PCB 5045C*	Conservation Biology	4 hrs
PCB 5328C*	Landscape Ecology	4 hrs
PCB 5326C*	Ecosystems of Florida	5 hrs
PCB 5485*	Models in Ecology	3 hrs
PCB 6466*	Methods in Experimental Ecology	3 hrs
BSC 5258L*	Tropical Bio Research & Conservation	3 hrs
a ZOO 4513*	Animal Behavior	3 hrs
a ZOO 5520*	Behavioral Ecology	3 hrs
a ZOO 5815*	Zoogeography	4 hrs
a ZOO 5881C*	Fisheries Management	4 hrs

4.3 Systematic (minimum of one lecture course)

b BOT 4713C *	Plant Taxonomy	5 hrs
b BOT 5485C *	Terrestrial Cryptogams	3 hrs
a ENY 5006C*	Entomology	4 hrs
a ENY 4004C*	General Entomology	4 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3301C*	Aquatic Biology	4 hrs
a ZOO 4205C*	Bio & Ecol of Metazoan Inverts	4 hrs
a ZOO 4310C*	Vertebrate Evolution & Ecol	4 hrs
a ZOO 5456C*	Ichthyology	4 hrs
a ZOO 5463C*	Herpetology	4 hrs
a ZOO 5475C*	Ornithology	4 hrs
a ZOO 5486C*	Mammalogy	4 hrs

*Designates courses offered by the Department of Biology.

Additional courses (e.g., BSC 4422L and BSC 5408L) may be used to meet a group requirement with approval of the Curriculum Committee via petition.

5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving class and research information on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors should not take any courses required in the major as a transient student at a community college.
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Molecular and Microbiology, Science Education, Environmental Engineering

Related Minors: Biology, Molecular and Microbiology, Environmental Studies.

Transfer Notes:

- Lower Division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes:

The following substitutions are acceptable for common program prerequisites if taken as part of the AA course work:

- CHM 2045C*: may use CHM 1040 plus CHM 1041 **or** CHM 2040C plus CHM 2041C
- BSC 2010C & Lab: may use PCB 2010, PCB 2011, PCB 2021, PCB 2131, BSC 1040, **or** BSC 2012
- BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require either BSC 2011C **or** both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 2014C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282. However, statistics at or above the level of STA 2023 is required in the major and still must be taken.
- MAC 2311: may use MAC 2233 or MAC 2253
- Physics: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Chem test See catalog	0
Math test See catalog	0

Freshman Year

	Spring	
Fall		
BSC 2010C Biology I	4	ENC 1102 Composition II 3
CHM 2045C Chem Fund I	4	BSC 2011C Biology II 4
ENC 1101 Composition I	3	CHM 2046 Chemistry Fund II 3
Elective* Check restrictions	3	CHM 2046L Chemistry Fund L 1
		Elective* Check restrictions 3

Sophomore Year

	Spring	
Fall		
MAC 2311 Calc Anal Geo I	4	SPC 1016 Fund Tech Presntn 3
POS 2041* req# 1D1-GEP	3	CHM 2211* req# 3-Core 3
STA 2023 Stat Methods I	3	PCB 3063 Genetics 3
CHM 2210* req# 3-Core	3	MCB 3020C* req# 4.3-ResEl 5
PCB 3044 Prin of Ecology	3	Elective* Check restrictions 3

Junior Year

	Spring	
Fall		
PHY 2053C* req# 2-CPP	4	PHY 2054C* req# 2-CPP 4
PCB 3023 Mol Cell Biology	3	PCB 4723* req# 4.1 ResE-a 4
BOT 4303C* req# 4.1 ResEl	5	BSC 4312C* req# 4.2 ResEl 4
Elective* Check restrictions	3	Elective* Check restrictions 3

Senior Year

	Spring	
Fall		
HUM 2210* req# 1B1-GEP	3	MUL 2010* req# 1B2-GEP 3
PSY 2012* req# 1D2-GEP	3	CHM 2211L* req# 3-Core 2
REL 2300* req# 1B3-GEP	3	PCB 4683L* req# 4.1 ResEl 1
PCB 4683 Popl Biology Evol	4	BOT 3800* req# 4.2-ResE-b 3
Elective* Check restrictions	3	Elective* Check restrictions 4

BIOLOGY – PREPROFESSIONAL CONCENTRATION (B.S.)

College of Sciences

Biology Department; BL 301, 407-823-2141

<http://www.cos.ucf.edu/biology>

E-mail: biology@ucf.edu

Contact: F. Logiudice, 407-823-2141

Students who hope to gain admission to a professional school (medical, dental, optometry, veterinary medicine, etc.) can meet the admission requirements while pursuing a Biology degree. The following track lists courses that will meet both sets of requirements.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- Co-op or internship credit cannot be used in this major
- No more than 4 hours of BSC 4422L, BSC 4937, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.

- Departmental Residency Requirement consists of at least 22 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization in the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations		
1. Select ENC 1101 and ENC 1102		6 hrs
2. Prefer SPC 1016		3 hrs
B. Cultural and Historical Foundations		9 hrs
C. Mathematical Foundations		
1. Select MAC 2311 or MAC 2241		4 hrs
2. Select STA 2023		3 hrs
D. Social Foundations		6 hrs
E. Science Foundations		
1. Select CHM 2045C or CHM 2040C and 2041C		4 hrs
2. Select BSC 2010C		4 hrs

2. Common Program Prerequisites (16 hrs)

BSC 2010C*	Biology I	GEP
BSC 2011C*	Biology II	4 hrs
Select one Calculus course		
MAC 2311*	Calculus w/Anal Geometry I	GEP
MAC 2241	Calculus for Life Sciences	
STA 2023*	Statistical Methods I	GEP
CHM 2045C+	Chem Fund I	GEP
CHM 2046 & L	Chem. Fund II & lab	4 hrs
Select one Physics sequence with labs*		
PHY 2053C	College Physics I	8 hrs
PHY 2054C	College Physics II	
or		
PHY 2048 & L	Physics Engr. & Sci. I & Lab	
PHY 2049 & L	Physics Engr. & Sci. II & Lab	

*See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core requirements (21 hrs)

PCB 3044	Principles of Ecology	3 hrs
PCB 3063	Genetics	3 hrs
CHM 2210	Organic Chem. I	3 hrs
CHM 2211 & L	Organic Chem. II & lab	5 hrs
PCB 3023	Molecular Cell Biology	3 hrs
PCB 4683	Population Biology & Evolution	4 hrs

4. Restricted Electives (Suggested) (22 hrs)

- Student must complete at least one course dealing exclusively with animals (marked 'a') and one course dealing exclusively with plants (marked 'b').
- At least three credit hours from each group must be completed.
- At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department. Courses offered by the Department of Biology have been designated with an asterisk (*).
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements. For complete listing, see Biology B.S. degree program.

4.1 Form/Function (minimum of one lecture course)

BCH 4053	Biochemistry I	3 hrs
BCH 4054	Biochemistry II	3 hrs
a BSC 4454	Research in Animal Physiology	2 hrs
PCB 3063L*	Genetics Laboratory	1 hr
PCB 3024L*	Molecular Cell Biology Laboratory	2 hrs
PCB 3233	Immunology	3 hrs
PCB 4514*	Genetics II	3 hrs
PCB 5665C*	Human Genetics	4 hrs
a PCB 4723*	Animal Physiology	4 hrs
a ZOO 3713C*	Comparative Vert Anatomy	5 hrs
a ZOO 4603C	Embryology/Development	5 hrs

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a	ZOO 4753C	Vertebrate Histology	4 hrs
4.2 Environmental (<i>minimum of one lecture course</i>)			
b	BOT 3800*	Ethnobotany	3 hrs
4.3 Systematic (<i>minimum of one lecture course</i>)			
	MCB 3020C	General Microbiology	5 hrs
a	ZOO 4205C*	Bio & Ecol of Metazoan Inverts	4 hrs
a	ZOO 4310C*	Vertebrate Evolution & Ecol	4 hrs

5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving class and research information on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors should not take any courses required in the major as a transient student at a community college.
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirement (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

Spanish is highly recommended.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Biology, Chemistry, Molecular/Microbiology

Related Minors: none

Transfer Notes:

- Lower Division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes:

The following substitutions are acceptable for common program prerequisites if taken as part of the AA course work:

- BSC 2010C & Lab: may use PCB 2010, PCB 2011, PCB 2021, PCB 2131, BSC 1040, or BSC 2012
- BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require either BSC 2011C or both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 2014C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282. However, statistics at or above the level of STA 2023 is required in the major and still must be taken.
- MAC 2311: may use MAC 2233 or MAC 2253
- Physics: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for

all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Chem test See catalog	0
Math test See catalog	0

Freshman Year

Fall	Spring	
BSC 2010C Biology I	4	ENC 1102 Composition II 3
CHM 2045C Chemistry Fund I	4	BSC 2011C Biology II 4
ENC 1101 Composition I	3	CHM 2046 Chemistry Fund II 3
Elective* Check restrictions	3	CHM 2046L Chemistry Fund L 1
		Elective* Check restrictions 3

Sophomore Year

Fall	Spring	
MAC 2311 Calc Anal Geo I	4	SPC 1016 Fund Tech Presntn 3
POS 2041* req# 1D1-GEP	3	CHM 2211 Organic Chm II 3
STA 2023 Stat Methods I	3	PCB 3063 Genetics 3
CHM 2210 Organic Chm I	3	MCB 3020C* req# 4.3-ResEI 5
PCB 3044 Prin of Ecology	3	MAC 2312 Calc Anal Geo II 4

Junior Year

Fall	Spring	
HUM 2210* req# 1B1-GEP	3	MUL 2010* req# 1B2-GEP 3
PHY 2048* req# 2-CPP	3	PHY 2049* req# 2-CPP 3
PHY 2048L* req# 2-CPP	1	PHY 2049L* req# 2-CPP 1
PCB 3023 Mol Cell Biology	3	PCB 4723* req# 4.1-ResE-a 4
ZOO 3713C* req# 4.1-ResEI	5	Elective* Check restrictions 3

Senior Year

Fall	Spring	
PSY 2012* req# 1D2-GEP	3	CHM 2211L* req# 3-Core 2
REL 2300* req# 1B3-GEP	3	BCH 4054* req# 4.1-ResEI 3
PCB 4683 Popl Biology Evol	4	BOT 3800* req# 4.2-ResE-b 3
BCH 4053* req# 4.1-ResEI	3	Elective* Check restrictions 3
Elective* Check restrictions	3	Elective* Check restrictions 2

BIOTECHNOLOGY (B.S.)

Burnett College of Biomedical Sciences

HPA2 335, 407-823-5932

<http://www.biomed.ucf.edu>

Chair: P.E. Kolattukudy

Students desiring admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) will meet all the admission requirements for those programs while obtaining a Molecular Biology and Microbiology degree.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor.
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Grades below "C-" (1.75) in life science courses will not be accepted
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36+2-3 hrs)

A. Communication Foundations	
Select ENC 1101, ENC 1102	6 hrs
Prefer SPC 1016 Tech Presentations	3 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2311 or MAC 2253	3-4 hrs
Select STA 2023	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select CHM 2045C	4 hrs
Select BSC 2010C	4 hrs

2. Common Program Prerequisites (21 hrs)

BSC 2010C	Biology I	GEP
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*BSC 2011C	Biology II	4 hrs
**CHM 2045C, 2046	General Chemistry I + II	GEP, 3 hrs
CHM 2210, 2211	Organic Chemistry I + II	6 hrs
PHY 2053C, 2054C	College Physics I, II + Lab	8 hrs
MAC 2311	Calculus with Analytical Geometry I	GEP
STAT 2023	Statistics	GEP

3. Core Requirements (44 hrs)

Life Sciences		
MCB 3020C	General Microbiology	5 hrs
MCB 4414	Microbial Metabolism	3 hrs
PCB 4239, 3233L	Molecular Immunology + Immunology Lab	4 hrs
PCB 3522, 4524	Molecular Biology I, II	6 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
MCB 4721	Lab Methods in Biotechnology	4 hrs
MCB 4XXX	Biotechnology/Industrial Seminar	3 hrs
MCB 4312	Molecular Biotechnology	3 hrs
PCB 4529	Experimental Molecular Biology	3 hrs
PCB 4174	Foundations of Bioimage Science	4 hrs
Chemistry		
CHM 2046L	General Chemistry II Lab	1 hrs
CHM 2011L	Organic Chemistry II Lab	1 hrs
BCH 4053	Biochemistry I	3 hrs
Physics**		
PHY 2053C, 2054C	College Physics I, II or 2048, 2049C	CPP
Math, Statistics, Computer		
MAC 2311 or MAC 2253		GEP

*May be substituted by BSC 3403C
 **Or CHM 2040, 2041

4. Upper Division Restricted Electives (6-8 hrs)

(Two courses minimum, no more than one may be taken outside the Molecular Biology and Microbiology Department. Each graduate must complete 3 credits of MCB 4912 or MCB 4970 or serve an internship. Only three hours of Honors thesis or undergraduate research will count toward the restrictive elective requirement.)

BCH 4054	Biochemistry II	3 hrs
BCH 4103L	Biochemical Methods	2 hrs
MCB 3203, 3203L	Pathogenic Microbiology + Lab	4 hrs
PCB 3063	Genetics	3 hrs
MCB 4204	Cellular Microbiology	3 hrs
MCB 4503C	Virology	3 hrs
MCB 4603	Environmental Microbiology	3 hrs
MCB 4912	Undergraduate Research	3 hrs
MCB 4970H*	Honors Thesis	3 hrs
MCB 4203	Infectious Processes	3 hrs
MCB 5225	Molecular Biology of Disease	3 hrs
MCB 5932	Current Topics in Molecular Biology	3 hrs
MCB 5505	Molecular Virology	3 hrs
MCB 5654	Applied Microbiology	3 hrs
PCB 3703C	Human Physiology	4 hrs
PCB 4251	Tissue Engineering	3 hrs
PCB 4805	Endocrinology	3 hrs
PCB 5275	Signal Transduction	3 hrs
PCB 5238	Immunopathology	3 hrs
PCB 5239	Tumor Biology	3 hrs
MCB 3404	Bacterial Genetics and Physiology	3 hrs

*Those students who do not qualify for the MCB 4970H may elect MCB 4912, Undergraduate Research, as a substitute course, but a research report must be submitted to instructor after completion of research project.

**Those students interested in pursuing graduate or professional education are encouraged to select the following courses. Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Applied Calculus I & II (MAC 2253, 2254) or Calculus with Analytic Geometry I & II (MAC 2311, 2312).

5. Departmental Exit Requirements

To be eligible for a major in Biotechnology:

- A student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- Independent study, directed research, or similar credit may not be used as a Restricted Elective
- A minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to pass a comprehensive test during their last semester

6. Electives (variable)

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Biology, Chemistry, Medical Lab Science

Related Minors: Biology, Chemistry

Transfer Notes:

Substitutes for Common Program Prerequisites

MAC X311 or MAC X233 or MAC X353 or MAC X281

PHY X253C & PHY X054C or PHY X048/X048L & PHY X049/X049L

STA X023 or STA X122 or STAX014 or STA X024 or STA X321

Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University's requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 eight hours of upper division coursework at UCF.

Honors in the Major

- Application and admission through the department and the Burnett Honors College
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H "Quantitative Biological Methods" with a grade of B or better (4 credits)
- Complete MCB 4970H "Honors Thesis" with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits)

Tentative Course Schedule for Entering Freshmen: One of many possible plans of study. Consult a departmental advisor for alternative plans and insert electives to total 120 hours.

Freshman Year			
Fall	13 hrs	Spring	14 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000	3	SPC 1016	3
<i>or</i> ANT 2000		CHM 2046	3
CHM 2045C	4	CHM 2046L	1
Cultural/Historical	3	BSC 2010C	4

Sophomore Year			
Fall	14/15 hrs	Spring	15 hrs
CHM 2210	3	CHM 2211	3
MCB3020C	5	CHM 2211L	2
MAC 2311* <i>or</i> MAC 2253	4/3	STAT 2023 <i>or</i> CGS 1060C	3
EUH 2000 <i>or</i> AMH 2010		BSC 3403C	4
<i>or</i> WOH 2012 <i>or</i> HUM 2211	3	EUH 2001 <i>or</i> AMH 2020	3
		<i>or</i> HUM 2230 <i>or</i> WOH 2022	

Plan your required 9 summer hours into your course of study

Junior Year			
Fall	13 hrs	Spring	15 hrs
PCB 3522	3	PCB 4524	3
ECO 2013 <i>or</i> POS 2041	3	PCB4239 + PCB 3233L	4
PHY 2053C <i>or</i> PHY 2048*	4	PHY 2054C*	4
<i>and</i> 2048L		<i>or</i> PHY2049, 2049L	
MCB 4XXX	3	BSC 2011C	4

*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.

Senior Year			
Fall	12/14 hrs	Spring	12/13 hrs
BCH 4053	3	PCB 4529	3
MCB 4721	4	PCB 4174	3

UCF Degree Programs

MCB 4312	3	Restricted Elective	3/4
Restricted Elective	2/4	MCB 4414	3

For students who transfer in their junior year from the community college (cc), the revised sequence of courses is provided [it is assumed that GEP and physics will be completed at cc]:

Junior Year			
Fall	13/15 hrs	Spring	13/14 hrs
MCB 3020C	5	PCB 3522	3
MCB 4XXX	3	BSC 3403C	4
Restricted elective	2/4	BCH 4053	3
Elective	3	restricted elective	3/4

*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.

Senior Year			
Fall	13/14 hrs	Spring	13 hrs
MCB 4414	3	PCB 4524	3
MCB 4721	4	PCB 4239, 3233L	3,1
MCB 4312	3	PCB 4529	3
Elective 3000 level	3/4	PCB 4174	3

BUSINESS ADMINISTRATION (B.A.B.A.)

(Completion program for individuals who have a statewide articulated A.A. from a Florida public community college)

(Note: This degree program is only available at selected Regional Campuses (Cocoa, Daytona, MetroWest, Palm Bay, Sanford/Lake Mary, and South Lake Campuses).)

College of Business Administration

BA 240, 407-823-2184

<http://www.bus.ucf.edu>

E-mail: cba@bus.ucf.edu

Clermont campus advising: Selena Forrest, 352-536-2174; *Cocoa campus advising:* Angelia Jones, 321-433-7889; *Daytona campus advising:* LeeAnn Davis, 386-506-4021; Pamela Von Graff: BA 325, 407-823-2184

The Bachelor of Arts in Business Administration (B.A.B.A.) within the College of Business Administration is a degree that will allow students to tailor their degree program to meet the needs of their chosen profession, through the use of an existing minor and a foreign language. The B.A.B.A. degree is significantly different than the traditional business degree at UCF such as Marketing, Finance, Accounting, etc. The B.A.B.A. degree permits course enrollment across various disciplines, in correspondence with the academic and life goals of each student. As such, B.A.B.A. is an individualized program of study consisting of the common program prerequisites, an approved academic minor, one year of foreign language, and the business core. Students can choose any minor outside the College of Business. The B.A.B.A. degree enables UCF's undergraduate students to graduate from the University with a specialized degree, having a business emphasis, uniquely designed by the student and his or her advisor.

Admission Requirements

2.0 GPA and completion of General Education and Common Program Prerequisites.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
- Students wanting a Bachelor of Arts in Business Administration must apply for admission to the major.
- Any student receiving a B.A.B.A. degree must complete one-half (18) of the 36 upper level business courses for their degree program in the College of Business Administration.
- Students must earn at least a 2.0 GPA in the College of Business Administration.
- Students seeking a B.A.B.A. major must earn a grade of "C" (2.0) or better in each course applied toward the major.

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
Select SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	

Select MAC 1105	College Algebra	3 hrs
Select STA 2023	Principles of Statistics	3 hrs

D. Social Foundations

Select ECO 2013	Macroeconomics <i>or</i>	3 hrs
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ECO 2013 Microeconomics, PSY 2012, SYG 2000 *or* ANT 2000

E. Science Foundation

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a "C" (2.0) or better.

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs
ECO 2013	Macroeconomics	3 hrs
ECO 2023	Microeconomics	3 hrs
*ECO 3401	Quantitative Business Tools	3 hrs
CGS 2100CC	Computer Fundamentals for Business	3 hrs

*UCF students who have completed MC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" or better must take ECO 3401.

3. Common Body of Knowledge (36 hrs)

Required for all students

First or subsequent semester in the College of Business

Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3356	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011	Essentials of Management Information Systems	4 hrs
MAR 3023	Marketing	4 hrs

Last Semester:

MAN 4720	Strategic Management	4 hrs
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4. Area of Specialization (18 hrs min)

Existing minor offered at Regional Campus

5. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits are permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs (A.A. Transfers)

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a

"C"(2.0) or better in each common program prerequisites class.

- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

CARDIOPULMONARY SCIENCES (B.S.)

College of Health and Public Affairs

HPA2 210, 407-823-2214

<http://www.cohpa.ucf.edu/health.pro/>

Undergraduate Program Director: Jeffery E. Ludy, EdD, RRT,

E-mail: jludy@mail.ucf.edu

Admission Requirements

Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program.

- Separate Application to the *limited access program* must be made directly to the program prior to February 1st of the year admission is sought.
- Application to the University must also be submitted by the program deadline of February 1st. Acceptance to UCF is necessary before acceptance to the Cardiopulmonary Sciences program can occur.
- This limited access program is work-intensive and courses include clinical practice in a variety of health care settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- A personal interview is a required part of the application process.
- Student must complete all general education, foreign language, and program admission prerequisites by the end of Spring Semester before starting the program.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C".
- A one page statement of intent for entry into the profession must be included with the program application. Typical papers are single spaced and approximately 500 words in length. Candidate should reflect on their reasons for wishing to become a respiratory care professional and their feelings concerning their recent site visit to a respiratory or cardiopulmonary department.
- Applicants are required to complete a cardiopulmonary resuscitation (CPR) program specifically designed for health care providers prior to admission to the program.
- The limited access portion of the cardiopulmonary sciences program has a requirement for all students to submit a criminal background check prior to the scheduling of a personal interview. This requirement mirrors clinical affiliates' need to guarantee patient safety by screening students prior to providing them access to their patient populations.
- The practice of respiratory care can be a physically challenging experience. Students must possess a level of visual acuity, auditory perception, and motor coordination necessary to participate fully in this strenuous patient care centered program. Specific questions about the physical requirements for this program and professional duties should be directed to the Program Director.

This department will continue to accept Associate in Arts (AA) and Associate in Science (AS) transfers, but those students admitted with the AS degree will need to complete the UCF General Education requirements before they can be actively considered for admission to this limited access program. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of current articulation activity.

Note: A total of 20 UCF undergraduate students are admitted each Fall semester

for the regular Cardiopulmonary Sciences program. Registered Respiratory Therapists (RRT's) applying for this program's transfer option will be admitted each semester on a space available basis. These individuals have a separate application process and are not counted as part of the regular Cardiopulmonary Sciences class. See transfer notes below.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Student should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Cardiopulmonary Sciences Program
- UCF Residency Requirement: 32 hours
- 25% of course work must be completed in residency at UCF
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs
Select BSC 2010C	
Select CHM 1032 and lab	

2. Common Program Prerequisites

(16 hrs)

MAC 1105	College Algebra	GEP
STA 2023	Statistical Methods I	GEP
BSC 2010C	Biology I	GEP
MCB 2004C	Microbiology	4 hrs
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology*	4 hrs
CHM 1032&L	Chemistry for Health Sciences or higher level (with lab)	GEP
PHY 2053C	College Physics or higher level (with lab)	4 hrs

*See Transfer Notes

3. Core Requirements

(72 hrs)

RET 3026C	Intro. to Respiratory Care	4 hrs
RET 3484C	Cardiopulmonary Physiology	4 hrs
HSC 4550	Pathophysiologic Mechanisms	3 hrs
HSC 4148	Medical Pharmacology I	2 hrs
RET 4503	Chest Medicine	3 hrs
RET 4244	Life Support Systems	3 hrs
RET 3483C	Respiratory Clinical Assessment	3 hrs
RET 3264C	Mechanical Ventilation	3 hrs
HSC 4149	Medical Pharmacology II	2 hrs
RET 4414C	Pulmonary Function Studies	4 hrs
RET 3174	Pediatric Respiratory Care	3 hrs
RET 3874	Clinical Practice I	5 hrs
RET 4284	Cardiopulmonary Diagnostics I	3 hrs
RET 4715	Neonatal Medicine	3 hrs
RET 4034	Problems in Patient Management.	3 hrs
RET 3875	Clinical Practice II	8 hrs
RET 4285	Cardiopulmonary Diagnostics II	3 hrs
RET 4934	Selected Topics in Respiratory Care	2 hrs
RET 4876	Clinical Practice III	8 hrs
RET 4536	Cardiopulmonary Rehabilitation	3 hrs

4. Upper Division Restricted Electives

(3 hrs)

The Cardiopulmonary Sciences program allows students in the traditional limited access program 3 credit hours of 3000-4000 level restricted elective courses with the approval of the program director. Any course or courses used to fulfill the restricted elective requirement must be passed with a grade of "C" (2.0) or better to be counted toward total program credit hours.

UCF Degree Programs

5. Departmental Exit Requirements (127 hrs)

Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation.

6. Electives (none)

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 32 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 127 hrs

Related Programs: Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate

Related Minors: Health Services Administration, Health Sciences, Molecular Biology & Microbiology, Biology, Chemistry

Transfer Notes:

The UCF Cardiopulmonary Sciences program maintains an active transfer program open only to Registered Respiratory Therapists (RRT) and registry eligible respiratory therapists (new respiratory care graduates from an accredited respiratory care program). This program allows working respiratory care professionals to attend UCF and gain a baccalaureate degree in Cardiopulmonary Sciences. To facilitate this process, transfer-credit by examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardiopulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This may be demonstrated by successful completion of the two part registry examination given by the National Board for Respiratory Care (NBRC). Only graduates of an accredited institution and program are eligible for the NBRC credentials. Students who successfully complete these requirements will have validated the knowledge and clinical competencies and will be awarded credit in their final semester with grades of "S" recorded in their transcripts.

Community College Equivalents

College Algebra (MAC 1105) <i>or</i> (higher level)	3 hrs
Statistics (STA 2023) <i>or</i> (higher level)	3 hrs
College Physics I (PHY 1007/L) <i>or</i> (PHY 3004/L)	
<i>or</i> higher level with labs	4 hrs
General Chemistry with Lab (CHM 1031/L) <i>or</i> (higher level)	4 hrs
Biology I with Lab (BSC 1005/L) <i>or</i> (higher level)	4 hrs
General Microbiology (MCB 2010C) <i>or</i> (MCB 2004C) <i>or</i> (MCB 2020/L) <i>or</i> (PHA 2751)	4 hrs
Human Anatomy and Physiology I & II (BSC 2093C and 2094C) <i>or</i> (BSC X085 and X086) replaces Anatomy and Physiology courses (ZOO 3733C and PCB 3703C)	8 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	16	Spring	16
ENC 1101	3	ENC 1102	3
CHM 1032 and lab	3/1	MCB 2004C	4
BSC 2010C	4	MAC 1105	3
PSY 2012 <i>or</i>	3	EUH 2000 <i>or</i> HUM 2210	3
ANT 2000 <i>or</i> SYG 2000		<i>or</i> AMH 2010	
HSC 2000	2	MAC 1114	3

Sophomore Year

Fall	14	Spring	13
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1600	3
EUH 2001 <i>or</i> HUM 2230 <i>or</i> AMH 2020	3	ECO 2013 <i>or</i> POS 2041	3
STA 2023	3	One course: ARH 2050	3
		ARH 2051, MUL 2010, THE1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	

Junior Year

Fall	16	Spring	14
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RET 3026C	4	RET 4503	3
Upper division elective	3	RET 4244	3
HSC 4550	3	RET 3174	3
HSC 4148	2	RET 3483C	3
RET 3484c	4	HSC 4149	2
Summer	12		
RET 4414C	4		
RET 3264C	3		
RET 3874	5		

Senior Year

Fall	17	Spring	16
RET 4284	3	RET 4285	3
RET 3875	8	RET 4876	8
RET 4715	3	RET 4934	2
RET 4034	3	RET 4536	3

Minor

none

Accreditation

Upon completion of the undergraduate program, the baccalaureate individual will possess basic and advanced level skills and should be prepared to assume future leadership roles within the profession. Graduates will be prepared to become Registered Respiratory Therapists through licensure by the State of Florida.

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association.

CHEMISTRY (B.S.)

College of Sciences

Department of Chemistry, CH 117, 407-823-2246

<http://www.cos.ucf.edu/chemistry>

E-mail: chemstaf@mail.ucf.edu

Contact: Cherie Geiger

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in the major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations	
1. Select ENC 1101 and ENC 1102	6 hrs
2. Prefer SPC 1016	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311	4 hrs
2. Prefer STA 2023	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select PHY 2048 & L (PR:MAC 2311)	4 hrs
2. Select BSC 2010C	4 hrs

2. Common Program Prerequisites (22 hrs)

CHM 2045C*+ Chem Fund I	4 hrs
CHM 2046 & L Chem Fund II & lab	4 hrs
CHM 2210 Organic Chem. I	3 hrs
CHM 2211 Organic Chem. II	3 hrs
MAC 2311 Calculus w/ Anal Geometry I	GEP
MAC 2312 Calculus w/ Anal Geometry II	4 hrs
PHY 2048 & L* Physics Engr. & Sci. I & Lab	GEP
PHY 2049 & L* Physics Engr. & Sci. II & Lab	4 hrs

*See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core requirements (39 hrs)

MAC 2313 Calculus w/ Anal Geometry III	4 hrs
CHM 2211L Organic Lab Techniques I	2 hrs
CHM 3212L Organic Lab Techniques II	2 hrs
CHM 3120 & L Analytical Chemistry & Lab	4 hrs

CHM 3410	Physical Chemistry I	4 hrs
CHM 3411	Physical Chemistry II	3 hrs
CHM 3411L	Physical Chemistry Lab	2 hrs
CHM 4610	Inorganic Chemistry	3 hrs
CHM 4610L	Inorganic Chemistry Lab	2 hrs
CHM 4130	Adv Analytical Lab Technique	4 hrs
CHM 4914C	Undergraduate Research Methods	1 hrs
CHM 4912	Undergraduate Research	4 hrs
CHM 4930	Chemistry Seminar	1 hrs
PHY 2048 & L	Physics Engr. & Sci. I & Lab	CPP
PHY 2049 & L	Physics Engr. & Sci. II & Lab	CPP
BCH 4053	Biochemistry I	3 hrs
BSC 2010C	Biology I	GEP

Select one of the following
 STA 1060C Statistics Using Excel
 STA 2023 Statistical Methods I

*See Transfer Notes for possible substitutes

4. Upper Division Restricted Electives (6 hrs)

BCH 4054	Biochemistry II	3 hrs
CHM 5225	Advanced Organic Chem I	3 hrs
CHM 4220	Organic Chem III	3 hrs
CHM 5235	Applied Molec Spectroscopy	3 hrs
CHM 5580	Advanced Physical Chem	3 hrs
CHM 5450	Polymer Chemistry	3 hrs
CHM 5451C	Techniques in Polymer Chemistry	3 hrs
CHS 4200	Concepts in Industrial Chem	3 hrs
CHS 4615	Environmental Chem	3 hrs

5. Directed Electives (3 hrs)

Course will be selected with the aid of a departmental advisor and approved in advance by the department chair. Course will be selected from the physical, biological, mathematical sciences and/or related disciplines and normally will be at the 3000/4000 level. Co-op courses cannot be used in the major.

6. Departmental Exit Requirements

- Complete a minimum of 24 Chemistry credits at UCF
- Achieve at least a "C" GPA (2.0) in all UCF Chemistry courses and an overall 2.0 GPA in all Chemistry courses used to satisfy this requirement
- Grades earned in CHM 4914C, CHM 4930 and CHM 4912 will not be applied in the determination of the Chemistry GPA
- Students are required to take a nationally normed test in chemistry during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring. The student must achieve a satisfactory score on the exam.
- Students are required to submit an undergraduate research report for evaluation no later than the date posted by the Department in the semester they intend to graduate. The report must meet or exceed departmental requirements established for the report.
- Computer Competency met by STA 1060C or by departmental assessment
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed.
 Note: Chemistry majors may count MAC 2313, CHM 2211, and PHY 2049 as upper division credit.
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the

CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Forensic Science, Molecular and, Microbiology, Science Education

Related Minors: Chemistry, Molecular and Microbiology

Transfer Notes:

- Lower Division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- CHM 2045C*: may use CHM 1040 plus CHM 1041 or CHM 2040C plus CHM 2041C
- PHY 2048 & Lab: may use PHY 2053C. However PHY 2048 & Lab is required and will still have to be taken.
- PHY 2049* & Lab: may use PHY 2054C. However PHY 2049 & Lab is required and will still have to be taken
- Physics: CPP requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics courses and Organic Chemistry classes are required for graduation.

Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Chem test See catalog	0
Math test See catalog	0

Freshman Year

Fall	Spring	
BSC 2010C Biology I	4 ENC 1102 Composition II	3
ENC 1101 Composition I	3 SYG 2000* req# 1D2-GEP	3
MAC 2311 Calc Anal Geo I	4 CHM 2046 Chemistry Fund II	3
CHM 2045C Chemistry Fund I	4 CHM 2046L Chemistry Fund L	1
	MAC 2312 Calc Anal Geo II	4

Sophomore Year

Fall	Spring	
PHY 2048 Phy for Eng Sci I	3 PHI 2010* req# 1B3-GEP	3
PHY 2048L Phy L Eng Sci I	1 CHM 2211 Organic Chm II	3
STA 1060C Stat Using Excel	3 PHY 2049 Phy for Eng Sci II	3
CHM 2210 Organic Chm I	3 PHY 2049L Phy L Eng Sci II	1
MAC 2313 Calc Anal Geo III	4 CHM 2211L Organic L Tech I	2
	Elective* Check restrictions	2

Junior Year

Fall	Spring	
POS 2041* req# 1D1-GEP	3 CHM 3411 Physical Chm II	3
BCH 4053 Biochemistry I	3 CHM 3411L Physical Chm L	2
CHM 3120 Analy Chemistry	5 CHM 4130 Adv Analy L Tech	4
CHM 3212L Organic L Tech II	2 CHM 4610 Inorg Chemistry	3
CHM 3410 Physical Chm I	4 BCH 4054* req# 4-ResEI	3

Senior Year

Fall	Spring	
HUM 2210* req# 1B1-GEP	3 MUL 2010* req# 1B2-GEP	3
CHM 4610L Inorg Chemistry L	2 SPC 1016 Tech Presentations	3
CHM 4914C undergrad Res Meth	1 CHM 4912 Research	3
CHM 4220* req# 4-ResEI	3 CHM 4930 Undergrad Chm Sem	1
PCB 3063* req# 5-DirEI	3 Elective* Check restrictions	3
Elective* Check restrictions	2 Elective* Check restrictions	3
CHM 4912 Research	1	1

CINEMA STUDIES TRACK in FILM

See Film - Cinema Studies Track

UCF Degree Programs

CIVIL ENGINEERING (B.S.C.E.)

College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE)
ENG2 211, 407-823-2841; Fax: 407-823-3315

<http://www.cee.ucf.edu>

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,
 E-Mail: cpohl@mail.ucf.edu; *Associate Chair:* Shiou-San Kuo, Ph.D.,
 P.E.; E-Mail: kuo@mail.ucf.edu

Admission Requirements: none

Degree Requirements

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students (36+2 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| 1. ENC 1101 & ENC 1102 | |
| 2. Prefer SPC 1016 | |
| B. Cultural and Historical Foundations | 9 hrs |
| 1. Select two courses from Historical Foundations | |
| 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, or LIT 2120 | |
| C. Mathematical Foundations | 7 hrs |
| 1. Select MAC 2311 (PR: MAC 1114) | |
| 2. Select STA 3032 (PR: MAC 2312) | |
| D. Social Foundations | 6 hrs |
| 1. Prefer ECO 2013 <i>or</i> ECO 2023. | |
| 2. ANT 2000, PSY 2012, <i>or</i> SYG 2000. | |
| E. Science Foundations | 7 hrs |
| 1. Select PHY 2048/48L (PR: MAC 2311). | |
| 2. Prefer GEO 1200 | |

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L	Chemistry Fundamentals I with Lab	4 hrs
<i>or</i> CHS 1440	Fund of Chemistry for Engineers	
MAC 2311	Calculus with Analytic Geometry I	4 hrs
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities or Social Sciences	GEP

3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
CHM 2045C	Chemistry Fundamentals I	CPP
CHM 2046	Chemistry Fundamentals II	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3331	Mechanics of Materials	3 hrs
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs

EGN 3373	Principles of Electrical Engineering	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
ENV 3001	Intro to Environmental Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
CEG 4011C	Geotechnical Engineering I	4 hrs
CES 4100C	Structural Analysis I	4 hrs
CES 4605	Steel Structures	
<i>or</i> CES 4702	Reinforced Concrete Structures	3 hrs
CWR 3201	Engineering Fluid Mechanics	3 hrs
CWR 4101C	Hydrology	3 hrs
CWR 4203C	Hydraulics	3 hrs
ENV 4561	Environment Engrng-Process Design	4 hrs
SUR 2101C	Surveying	3 hrs
TTE 4004	Transportation Engineering	4 hrs

4. Approved Technical Electives (3 hrs)

Technical electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- Approved CE Project Design Course I 3 hrs
- Approved CE Project Design Course II 3 hrs
- Civil engineering students must take the Fundamentals Exam during their Senior year.
- Earn a minimum graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved CE project design courses.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Construction Engineering, Environmental Engineering

Related Minors: Mathematics, Engineering Leadership.

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Civil Engineering - 128 semester hours required

FIRST YEAR			
Fall	14 hrs ¹	Spring	14 hrs ¹
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*MAC 2311 Calc w/Analy Geo I	4	*MAC 2312 Calc w/Analy Geo II	4
*ANT/PSY/SYG	3	*PHY 2048/L Phys Engr I w/lab	4
*ECO 2013 Macroeconomics	3	EGN 3613 Eng Econ Anal	2
<i>or</i> ECO 2023 Microeconomics		EGN 1007C Eng Con & Meth	1
EGN 1006C Intro To Eng Prof	1		

SECOND YEAR

Fall	14 hrs¹	Spring	16 hrs¹
*MAC 2313 Calc w/Analy Geo III	4	*MAP 2302 Diff Equations	3
*CHM 2045C/L Chem Funds I	4	*CHM 2046 Chemistry Funds II	3
*HUM/AMH/EUH - I	3	*PHY 2049/L Phys Eng II w/lab	4
EGN 3310 Engr Anal - Statics	3	*GEO/GLY/BSC	3
		EGN 3321 Engr Anal-Dynamic	3
Summer	9 hrs		
STA 3032 Prob/Stats for Engrs	3		
EGN 3331 Mech of Materials	3		
ENV 3001 Intro to Environ Eng	3		

THIRD YEAR

Fall	16 hrs	Spring	16 hrs¹
CWR 3201 Eng Fluid Mechanics	3	CWR 4101C Hydrology	3
CCE 4003 Intro to Const Indus	3	CWR 4203C Hydraulics	3
*SPC 1016 Tech Presentations	3	EGN 3373 Prin Elec Eng	3
CES 4100C Structural Analysis I	4	*HUM/AMH/EUH - II	3
*SUR 2101C Surveying	3	TTE 4004 Transportation Eng	4

FOURTH YEAR

Fall	14 hrs	Spring	15 hrs
ENV 4561 Env Eng-Proc Design	4	Approved Project Design Course	3
CEG 4011C Geotechnical Engr	4	CES 4702 Reinfrcd Concrte Strctrs	3
CES 4605 Steel Structures	3	<i>or</i> Technical Elective	
<i>or</i> Technical Elective		EGN 3365 Str. & Prop Mats	3
Approved Project Design Course	3	EGN 3343 Thermodynamics	3
		*Cultural Elective	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour for each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

BS to PhD Program

The Civil Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

COMMUNICATION SCIENCES AND DISORDERS (B.A., B.S.)

College of Health and Public Affairs, HPA2 101

<http://www.cohpa.ucf.edu/comdis/>

Chair: R. Jane Lieberman, 407-823-4798;

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,

E-mail: jschwart@mail.ucf.edu

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students must attend an orientation and consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida public Community College, and usually should be completed in the first 60 hours
- Students must earn at least a "C-" (1.75) in each required course, restricted elective, and B.A./B.S. elective.
- Communication Sciences and Disorders is an unrestricted major, however, negative criminal background checks may result in the inability to complete coursework in this major. Students will complete background checks with the FDLE/FBI and Certified Background.com as a prerequisite to Clinical Methods (SPA 4056C). Results must be received before registering for this course.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - Prefer MGF 1106 Finite Math
 - Select STA 2014C *or* STA 2023
- D. Social Foundations 6 hrs
 - Select PSY 2012 General Psychology
 - Select one of the listed choices (ECO 2013, ECO 2023), *or* (POS 2041)
- E. Science Foundations 6 hrs
 - Prefer BSC 1005 Gen Bio
 - Select one biological and one physical science

2. Common Program Prerequisites none

3. Core Requirements (60 hrs)

- DEP 2004 Developmental Psychology 3 hrs
- SPA 3471 Communication Disorders in Literature and Media 3 hrs
- SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
- SPA 3112 Basic Phonetics 3 hrs
- SPA 3112L Basic Phonetics Lab 1 hr
- LIN 3716 Language Development: Birth Through 8 Years 3 hrs
- SPA 3011 Speech Science I: Speech Production 3 hrs
- SPA 3011L Speech Production Lab 1 hr
- LIN 3717 Language Development: 9-18 Years 3 hrs
- SPA 3104 Neural Bases of Communication 3 hrs
- SPA 3123 Speech Science II: Speech Perception 3 hrs
- SPA 3123L Speech Perception Lab 1 hr
- SPA 4476 Speech Disorders Across the Lifespan 3 hrs
- SPA 4032 Audiology 3 hrs
- SPA 4478 Multicultural Aspects: Communication Disorders and Differences 3 hrs
- LIN 4711 Language Analysis 3 hrs
- LIN 4711L Language Analysis Lab 1 hr
- SPA 4400 Language Disorders Across the Lifespan 3 hrs
- SPA 4321 Audiologic Rehabilitation 3 hrs
- EAB 3703 Principles of Behavior Modification *or*
- EEX 4601 Introduction to Behavior Management *or*
- EEC 4604 Guidance of Young Children *or*
- EDF 3303 Learning Environments and Guidance for Young Children *or*
- SPA 3472 Guidance of Young Children w/ Communication Disorders
- SPA 4056C* Clinical Methods in Communication Disorders 5 hrs
- SPA 4501L Undergraduate Clinical Practicum *or* 3 hrs
- SPA 4948 Community Internship

*Note: Students must complete criminal background checks with the FDLE/FBI and certified background .com as a prerequisite to SPA 4056C. Results must be received before course registration.

4. Statistics Requirement (6 hrs)

Students have two options for completing this requirement:

- Option 1:**
 - STA 2023 Statistical Methods I GEP and 3 hrs
 - STA 4163 Statistical Methods II *or* 3 hrs
- Option 2:**
 - STA2014C Principles of Statistics (GEP) *or* 3 hrs
 - STA 2023 Statistical Methods I and
 - SPA4803 Res. Methods in Comm. Sciences and Disorders 3 hrs

5. Upper Division Restricted Electives (6 hrs)

An additional six credit hours of upper division course work in Communication Sciences and Disorders selected in consultation with the academic advisor.

6. Electives (6 hrs min)

B.A./B.S. Option.

- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.
- Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

7. Foreign Language Requirements

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. American Sign Language (ASL) can be used to fulfill the foreign language admission requirement.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL I, II,

UCF Degree Programs

and III can be used to fulfill this requirement.

8. Departmental Exit Requirements

Students must achieve a minimum grade of "C-" (1.75) in all required courses, restricted electives, and B.A./B.S. electives in the Department.

Students must also earn an overall minimum of 2.0 GPA in the courses used to satisfy the major.

9. University Minimum Exit Requirements (120 hrs)

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

Related Programs: Health Services Administration, Physical Therapy, Psychology, Social Work, Exceptional Student Education, Early Childhood Education

Related Minors: American Sign Language and Deaf Studies, Exceptional Education, Early Childhood Education, Aging Studies, Health Services Administration, Interpersonal Communication, Linguistics, Psychology

Transfer Notes:

- "D" (1.0) grades are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students may take STA 2014C or STA 2023 to fulfill the first part of the statistics requirement

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	16 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
PSY 2012	3	PSC 1121 <i>or</i> PHY 2053C	3
BSC 1005	4	ECO 2013 <i>or</i> ECO 2023	3
One Course: ARH 2050 <i>or</i> ARH 2051, <i>or</i> MUL 2010, <i>or</i> THE 2000, <i>or</i> REL 2300, <i>or</i> PHI 2010, <i>or</i> LIT 2110, <i>or</i> LIT 2120, <i>or</i> FIL 1000	3	<i>or</i> POS 2041	3
Elective	3	EUH 2000 <i>or</i> HUM 2210 <i>or</i> AMH 2010	3
		DEP 2004	3

Sophomore Year

Fall	15/16 hrs	Spring	16/17 hrs
SPC 1600	3	SPA 3112 and SPA 3112L	4
EUH 2001 <i>or</i> HUM 2230 <i>or</i> AMH 2020	3	Restricted Elective	3
MGF 1106 <i>or</i> MAC 1105	3	EAB 3703, <i>or</i> EDF 3303	3
Elective	3	<i>or</i> EEX 4601, <i>or</i> EEC 4604, <i>or</i> SPA 3472	3
SPA 3471	3	STA 2014C <i>or</i> STA 2023	3
		Elective	3

Junior Year

Fall	13 hrs	Spring	16 hrs
LIN 3716	3	LIN 3717	3
SPA 3011 and SPA 3011L	4	SPA 3123 and SPA 3123L	4
SPA 3101	3	SPA 4476	3
Foreign Lang. I (B.A.) <i>or</i> Health Science (B.S.) elective.	3/4	SPA 3104	3
		Foreign Lang. II (B.A.) <i>or</i> Health Science (B.S.) elective	3/4

Senior Year

Fall	15 hrs	Spring	15 hrs
SPA 4032	3	SPA 4321	3
SPA 4400	3	SPA 4501L* <i>or</i> SPA 4948	3
LIN 4711 and 4711L	4	Restricted Elective	3
SPA 4056C	5	STA 4163 <i>or</i> SPA 4803	3
		SPA 4478	3

*Students must apply and be selected to enroll in SPA 4501L.

Note: Certification in speech-language pathology by the American Speech-Language-Hearing Association and licensure by the State of Florida Department of

Health, Division of Medical Quality Assurance requires a master's degree in Communication Sciences and Disorders. Minimum requirements for entry into the graduate program typically include at least a 3.0 GPA in the last 60 hours of undergraduate work in the major. Entry level positions to provide speech and language services are available in some Florida school districts. Under the 2/5 Rule, individuals employed in these positions have two years from the date of employment to enroll in a master's program in Communication Sciences and Disorders and five years to complete the degree.

COMPUTER ENGINEERING (B.S.Cp.E.)

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr., Rm 246,
407-823-2787; Fax: 407-823-5419
<http://www.eecs.ucf.edu>

Contact: Dr. Samuel Richie, E-mail: richie@mail.ucf.edu;
 Charlese Hilton-Brown, E-mail: Chilton@mail.ucf.edu

Admission Requirements:

none

Degree Requirements

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students (36+2 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, <i>or</i> LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Prefer ECO 2013 <i>or</i> ECO 2023	
2. ANT 2000, PSY 2012, <i>or</i> SYG 2000	
E. Science Foundations	7 hrs
1. Select PHY 2048/2048L (PR: MAC 2311)	
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, <i>or</i> MCB 1310	

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **To enroll in ECE major courses, a 2.0 (C or better) in each course is required for those courses in section 2. marked with an asterisk (*).** Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311*	Calculus with Analytic Geometry I	GEP
MAC 2312*	Calculus with Analytic Geometry II	4 hrs
MAC 2313*	Calculus with Analytic Geometry III	4 hrs
MAP 2302*	Differential Equations	3 hrs
PHY 2048/48L*	Physics for Engineers & Scientists I	GEP
PHY 2049/49L*	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities or Social Sciences	GEP

3. Courses Required for the Engineering Core (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4.

below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
or EGN 3358	Thermo-Fluids-Heat Transfer	
EGN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists III	3 hrs

4. Courses Required for the Major (45 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801	Intro to Computer Engineering	3 hrs
EEL 4767C	Computer System Design I	4 hrs
EEL 4768C	Computer System Design II	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
EEL 4851C	Engineering Data Structures	4 hrs
EEL 4882	Engineering System Software	3 hrs
EEL 4884C	Engineering Software Design	4 hrs

5. Approved Technical Electives (6 hrs)
 Technical electives are available in the BScPE program to address specific student interests in a variety of technical areas such as Software Engineering. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Computer Science, Electrical Engineering, Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: Information Technology, Computer Science, Intelligent Robotic Systems, Engineering Leadership.

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Computer Engineering - 128 semester hours required

FIRST YEAR

Fall	14 hrs^{1,3}	Spring	12 hrs^{1,3}
*Historical Foundations 1a	3	*ENC 1102 English Comp II	3
*ENC 1101 English Comp I	3	EEN 1007C Eng Conc & Meth	1
*SPC 1016 Tech Presentations	3	*MAC 2312 Calc with Analy Geo II	4
EEN 1006C Intro to Engr	1	*PHY 2048/L Phys for Eng/Sci I	4
*MAC 2311 Calc with Analytic Geo I	4		
Summer	10 hrs¹		
*Social Foundations 1	3		
*Science Foundations 2	3		
*MAC 2313 Calc with Analytic Geo III	4		

SECOND YEAR

Fall	17 hrs¹	Spring	15 hrs¹
*MAP 2302 Diff Equations	3	EEN 3321 Engr Anal-Dynamics	3
*PHY 2049/L Phys Engr/Sci II	4	or EEN 3358 Ther-Flds-Ht Tran	
CHS 1440 Chem for Engr	4	*PHY 3101 Physics for Engr III	3
EEN 3310 Engr Anal-Statics	3	EEL 3342C Intro Dig Circ/Sys	3
EEN 3420 Eng Analysis2	3	EEL 3801 Intro Cmptr Engr	3
		EEL 3004 Electrical Networks	3
Summer	6 hrs¹		
*ECO 2013 Macroeconomics	3		
or ECO 2023 Microeconomics			
*HistoricalCult & Hist Foundations 1b	3		

THIRD YEAR

Fall	14 hrs	Spring	14 hrs
EEL 3306 Semicond'r Dev I	3	EEL 3307C Electronics I	4
EEL 4851C Eng Data Struc	4	EEL 3657 Linear Cont Sys	3
STA 3032 Prob/Stats for Engr	3	EEL 4767C Cmp Sys Des'n I	4
EEL 3123C Networks and Systems	4	EEL 4882 Engrng Sys S/W	3

FOURTH YEAR

Fall	14 hrs³	Spring	12 hrs¹
EEL 4768C Cmp Sys Dsgn II	4	*Cultural & Hist Foundations 2	3
EEL 4884C Engr S/W Dsgn	4	Approved Technical Elective	3
EEL 4914 Senior Design I	3	EEL 4915L Senior Design II	3
Approved Technical Elective	3	EEL 4781 Cmp CommNetworks	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 5. Approved Technical Electives

Accelerated BS/MS Degree Program

The Computer Engineering program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

COMPUTER SCIENCE (B.S.)

**College of Engineering and Computer Science
 School of Electrical Engineering & Computer Science
 Harris Corp Engineering Ctr., Rm 246,
 407-823-2787; Fax: 407-823-5419**

<http://www.eecs.ucf.edu>

Contacts: Dr. Ali Orooji, E-mail: orooji@cs.ucf.edu;
 Charlese Hilton-Brown, E-mail: Chilton@mail.ucf.edu

Foundation Examination

Prior to taking courses beyond basic core requirements, students must pass a foundation exam (COT 3960) which covers problem solving techniques, algorithms, abstraction, proofs, and programming language skills. Tests will be administered each semester. Refer to the computer science website for more information about the foundation exam.

Degree Requirements

- Students must earn at least a 2.0 in each course in 2-5
- Students are required to consult with a departmental advisor and file a plan of study after passing the foundation exam
- Students must meet a Residency Requirement of at least 24 semester hours of regularly scheduled 3000-5000 level courses

UCF Degree Programs

- taken from Computer Science at UCF
- 18 of the 24 Residency hours must be at the 4000-5000 level

1. UCF General Education Program (36+3 hrs)

- A. Communication Foundations 9 hrs
 1. ENC 1101, & ENC 1102
 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 7 hrs
 1. Select MAC 2311 (PR: MAC 1114) 4 hrs
 2. Select STA 2023 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 8 hrs
 1. Select PHY 2048 & L (PR:MAC 2311)
 2. Prefer BSC 2010C & L

2. Common Program Prerequisites (15 hrs)

- | | | |
|---|-----------------------------------|-------------|
| COP 3223 | C Programming | 3 hrs |
| MAC 2311 | Calculus with Analytic Geom I | GEP |
| MAC 2312 | Calculus with Analytic Geom II | 4 hrs |
| PHY 2048 & L | Physics for Engr. & Sci. I & Lab | GEP |
| PHY 2049 & L | Physics for Engr. & Sci. II & Lab | 4 hrs |
| Select two science courses designed for majors | | 4 hrs + GEP |
| Examples of acceptable science courses include: | | |
| BSC 2010C | Biology I | |
| BSC 2011C | Biology II | |
| CHM 2045C | Chem. Fund I | |
| CHM 2046 | Chem. Fund II | |

3. Basic Core requirements (25 hrs)

- | | | |
|-----------|--|-------|
| COP 3330 | Intro to OO Programming | 3 hrs |
| COP 3502C | Computer Science I | 3 hrs |
| COP 3503C | Computer Science II | 4 hrs |
| STA 2023 | Statistical Methods I | GEP |
| ENC 3241 | Technical Report Writing | 3 hrs |
| CDA 3103 | Computer Organization | 3 hrs |
| COT 3100C | Intro to Discrete Structures | 3 hrs |
| PHI 3626 | Ethics in Science and Technology | 3 hrs |
| COP 3402 | Systems Software | 3 hrs |
| COT 3960 | Foundat. Exam (PR:COT 3100C & COP 3502C) | 0 hrs |

4. Advanced Core (17 hrs)

- Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
- | | | |
|-----------|---------------------------------------|-------|
| COP 4331C | Processes for OO Software Development | 4 hrs |
| CDA 4150C | Comp Architecture | 4 hrs |
| COT 4210 | Discrete Comp Structures | 3 hrs |
| COP 4020 | Programming Languages I | 3 hrs |
| COP 4600 | Operating Systems | 3 hrs |

5. Restricted Electives (18 hrs)

- 4000-5000 level Computer Science courses 12 hrs
 Must include COT 4810 (Topics in Computer Science). Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internship or cooperative education credits are allowed. Approved IT courses offered by Computer Science may also be used toward this requirement (3 credits).
- 4000-5000 level mathematics or statistics 6 hrs
 courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education hours are allowed.

6. School Exit Requirements

- Complete an exit survey
- Computer Competency met by completion of major

7. Foreign Language Requirements (0-4 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: Proficiency exam in a second language, one semester of college level Foreign Language, or 3 credits of multicultural courses approved by Computer Science.

8. Electives (variable)

Select primarily from upper level courses, with the student's advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Computer Engineering, Information Technology, Management Information Systems

Related Minors and Certificates: Information Technology, Computer Science, Intelligent Robotic Systems, Secure Computing and Networks, Interdisciplinary Informatics Technology

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

FIRST YEAR

Fall	12 hrs	Spring	13 hrs
ENC 1101 English Comp I	3	ENC 1102 English Comp II	3
SPC 1016 Tech Presentations	3	MAC 2311 Calc with Analy	4
COT 3100C Intro. Discrete Structures	3	COP 3502C Comp Science I	3
COP 3223 C Programming	3	CDA 3103 Comp Organization	3
		COT 3960 Foundation Exam	0

Summer 7 hrs

MAC 2312 Calc with Analy Geo II	4
COP 3330 Intro to OOP/Java	3

SECOND YEAR

Fall	14 hrs	Spring	14 hrs
COP 3402 Systems Software	3	COP 4331C Processes for OO Dev	4
COP 3503C Comp Science II	4	ENC 3241 Tech Report Writing	3
PHY 2048 Physics for Sci w/lab	4	PHY 2049 Physics for Sci w/lab	4
Cultural Foundations	3	PHI 3626 Ethics in Sci & Tech	3

Summer 6 hrs

STA 2023 Statistical Methods	3
Social Foundations	3

THIRD YEAR

Fall	13 hrs	Spring	13 hrs
CDA 4150C Computer Architecture	4	COP 4600 Operating System	3
COP 4020 Programming Langs	3	CHM 2045C Chemistry I	4
BSC 2010C Gen Biology I	4	Math/Stat Restricted Elective	3
Social Foundations	3	CS Elective	3

Summer 3 hrs

COT 4210 Discrete Structure II	3
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FOURTH YEAR

Fall	12 hrs	Spring	12 hrs
COT 4810 Topics in CS	3	CS Elective	3
CS Elective	3	Multi-Cultural Elective	3
Historical Foundations	3	Historical Foundations	3
Free Elective	3	Math/Stat Restricted Elective	3

Accelerated BS/MS Degree Program

The Computer Science program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

CONSTRUCTION ENGINEERING (B.S.Con.E.)

**College of Engineering and Computer Science
 Civil & Environmental Engineering Department (CEE)
 ENG2 211, 407-823 2841; Fax: 407-823-3315**

<http://www.cee.ucf.edu>

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl, E-mail: cpohl@mail.ucf.edu;
Construction Program Director: Dr. Amr A. Oloufa, Ph.D., P.E., E-mail: aoloufa@mail.ucf.edu

Admission Requirements: none

Degree Requirements

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students (36+2 hrs)

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, <i>or</i> LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114).	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Prefer ECO 2013 or ECO 2023.	
2. ANT 2000, PSY 2012, <i>or</i> SYG 2000.	
E. Science Foundations	7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)	
2. Prefer GEO 1200	

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L	Chemistry Fundamentals I with Lab	4 hrs
<i>or</i> CHS 1440	Fund of Chemistry for Engineers	
MAC 2311	Calculus w/Analytic Geometry I	GEP
MAC 2312	Calculus w/Analytic Geometry II	4 hrs
MAC 2313	Calculus w/Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities or Social Sciences	GEP

3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
CHM 2045C	Chemistry Fundamentals I	CPP
CHM 2046	Chemistry Fundamentals II	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3331	Mechanics of Materials	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
ENV 3001	Intro to Environmental Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
CCE 4813	Mech & Elec Systems for Buildings	4 hrs
CCE 4402	Construction Equip & Productivity	3 hrs
EGN 3365	Struc & Prop of Materials	3 hrs
CCE 4004	Construction Methods	3 hrs
CCE 4034	Construction Estimating & Scheduling	3 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
CEG 4011C	Geotechnical Engineering I	4 hrs
CES 4100C	Structural Analysis I	4 hrs
CES 4702	Reinforced Concrete Structures	3 hrs
<i>or</i> CES 4605	Steel Structures	
CWR 3201	Engineering Fluid Mechanics	3 hrs

ACG 2071	Managerial Accounting	3 hrs
SUR 2101C	Surveying	3 hrs
TTE 4004	Transportation Engineering	4 hrs

4. Approved Engineering Science Electives (3 hrs)

Engineering Science electives are available in the BSConE program to address specific student interests in a variety of technical areas. Students are encouraged to take EGN 3343 (Thermodynamics), EGN 3373 (Principles of Elect Engr), CWR 4101C (Hydrology), or CWR 4203C (Hydraulics) as the technical elective. Other courses from the list of approved technical electives may be used with the approval of the department advisor. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- CCE 4810C Construction Engr. Design Project 3 hrs
- CEG 4801C Geotechnical Engr. Design 3 hrs
- Construction engineering students must take the Fundamentals Exam during their Senior year.
- Earn a graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved ConE project design courses.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Civil Engineering, Environmental Engineering.

Related Minors: Mathematics, Engineering Leadership

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Construction Engineering – 128 semester hours required 128 semester hours required

FIRST YEAR		14 hrs ¹ Fall		15 hrs ¹ Spring	
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3		
*MAC 2311 Calc w/Analy Geo I	4	*MAC 2312 Calc w/Analy Geo II	4		
*ANT/PSY/SYG	3	*PHY 2048/L Phys Engr I w/lab	4		
*ECO 2013 Macroeconomics	3	*GEO GLY/BSC	3		
<i>or</i> ECO 2023 Microeconomics		EGN 1007C Eng Con & Meth	1		
EGN 1006C Intro To Eng Prof	1				
SECOND YEAR		16 hrs ¹ Fall		16 hrs ¹ Spring	
*MAC 2313 Calc w/Analy Geo III	4	*MAP 2302 Diff Equations	3		
*CHM 2045C/L Chem Funds I	4	*CHM 2046 Chemistry Funds II	3		
*HUM/AMH/EUH - I	3	*PHY 2049/L Phys Eng II w/lab	4		

UCF Degree Programs

EGN 3310 Engr Anal - Statics	3	*HUM/AMH/EUH - II	3
EGN 3613 Eng Econ Anal	2	EGN 3331 Mech of Materials	3
Summer	9 hrs¹		
*SPC 1016 Tech Presentations	3		
STA 3032 Prob/Stats Engineers	3		
ENV 3001 Intro to Environ Eng	3		

THIRD YEAR

Fall	16 hrs¹	Spring	15 hrs¹
EGN 3321 Engr Anal-Dynamics	3	Engineering Science Elective	3
CCE 4003 Intro Constr. Industry	3	CES 4702 Reinforced Concrete	3
CES 4100C Structural Analysis I	4	CCE 4004 Construct Methods	3
*SUR 2101C Surveying	3	*Cultural/Historical Elective	3
EGN 3365 Struc & Prop of Mat	3	CWR 3201 Eng Fluid Mechanics	3

FOURTH YEAR

Fall	15 hrs	Spring	13 hrs
TTE 4004 Transportation Eng	4	CCE 4810C Constr Design Project	4
CCE 4034 Construc Est & Sched	3	CCE 4402 Constr Equip & Prod	3
CEG 4011C Geotechnical Engr	4	CEG 4801C Geotech Engr Design	3
CCE 4813 Mech & Elec Bldgs	4	ACG 2071 Prin Mgrl Accounting	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.

2. Engineering Science Elective may be satisfied by taking either EGN 3343 or EGN 3373, other courses must be approved by Program Director.

3. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.

4. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

BS to PhD Program

The Construction Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

CRIMINAL JUSTICE (B.A./B.S.)

College of Health and Public Affairs

HPA1 311, 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

E-mail: cjadvice@mail.ucf.edu

Undergraduate Program Coordinator: Dr. Mary Ann Eastep

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MGF 1106 Finite Math	
Select CGS 1060C, STA 1060C, or STA 2014C	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites

none

3. Core Requirements

(18 hrs)

CCJ 3024	Criminal Justice System	3 hrs
CCJ 3014	Crime in America	3 hrs
CJL 3510	Prosecution and Adjudication	3 hrs
CJC 3010	Corrections and Penology	3 hrs
CJE 4014	Police and Society	3 hrs
CCJ 4701	Research Methods in Criminal Justice	3 hrs

4. Upper Division Restricted Electives (42 hrs)

- 27 additional semester hours of upper division criminal justice course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internship or independent study credit.
- 15 additional semester hours of supporting courses to be selected from an approved list provided by the Department. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology. The supporting course requirements may also be met by completing a minor from another program approved by the Department with a minimum of 15 semester hours credit.

5. Upper Division Unrestricted Electives

none

6. Departmental Exit Requirements

(120 hrs)

Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level. The foreign language credits may be used toward the 15 hour supporting course requirement.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required

120 hrs

Related Programs: Legal Studies

Related Minors: Legal Studies, Public Administration, Psychology.

Transfer Notes: "D" (1.0) grades are not accepted.

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
MGF 1106 or MAC 1105	3	CGS 1060C	3
PSY 2012 or SYG 2000 or ANT2000	3	PSC 1121 or CHM 1020	3
EUH 2000 or HUM 2210	3	PHI 2010 or MUL 2010	3
or AMH 2010, ARH 2050, THE 2000, or REL 2300, PHI 2010, LIT 2110, LIT 2120		Elective	3
PAF 2102	2		
Sophomore Year			
Fall	15 hrs	Spring	15 hrs
SPC 1600	3	CCJ 3024	3
EUH 2001 or HUM 2230 or AMH 2020	3	CCJ 3014	3
BSC 1005 or MCB1310 or GLY 1030 or PSC 1121 or ANT 2511	3	CJ Elective	3
Elective	3	CJ Elective	3
POS 2041 or ECO 2013	3		
Junior Year			
Fall	15/16 hrs	Spring	15/16 hrs
CJL 3510	3	CJE 4014	3
CJC 3010	3	CCJ 4701	3
CJ Elective	3	CJ Elective	3

Supporting Elective/Foreign Language	3	Supporting Elective/Foreign Lang.	3
CJ Elective	3	CJ Elective	3
Senior Year			
Fall	15 hrs	Spring	9/15 hrs
CJ Elective	3	CCJ Internship <i>or</i>	3/6
CJ Elective	3	CJ Elective	
Supporting Elective	3	Supporting Elective	3
Elective	3	Elective (if necessary)	3
Elective	3	Elective (if necessary)	3

CRIMINAL JUSTICE (B.S.)

A.S. to B.S. Track

Note: For detailed information about this program, see description in the AS to BS Programs section

DIGITAL MEDIA (B.A.)

College of Arts and Humanities

Digital Media, 500 OTC

<http://www.dm.ucf.edu>

E-mail: digitalmedia@dm.ucf.edu

Head of Digital Media: Dr. David Vickers, 407-823-6110

The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:

- Provide a solid foundation in techniques and theory in one focused area of competence.
- Provide a broad understanding of related disciplines including arts, humanities, and technology.
- Provide extended experience in working in multidisciplinary teams on realistic problems.

The program is administered through the College of Arts and Humanities. It recognizes that there are many combinations of courses which meet the needs of individual students. Two concentration areas – Visual Language and Digital Interactive Systems — lead to a Bachelor of Arts degree.

Note: Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a computer. Contact Digital Media or see the website (<http://www.dm.ucf.edu>) for the minimum hardware and software specifications.

Admission Requirements **none**

Degree Requirements

- UCF students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF
- Co-op or internship credits are not permitted in this major without prior, written permission.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.

1. UCF General Education Program (36 hrs)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | |
| Take one course from 1.B.1 list | 3 hrs |
| Select ARH 2050 | |
| If Digital Interactive Systems take ARH 2050 or MUL 2010 | 3 hrs |
| Take one course from either 1.B.1 or 1.B.2 | 3 hrs |
| C. Mathematical Foundations | 6 hrs |
| Select MAC 1105 College Algebra and | |
| Select COP 2500C Concepts in Computer Science | |
| Note: These two courses fulfill the math GEP | |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |

2. School of Film and Digital Media Common Core (15 hrs)

DIG 3001*	Digital Media Principles	3 hrs
FIL 1007	Foundations of Story	3 hrs
FIL 1008	Cinematic Expression/Aesthetics	3 hrs
FIL 2107	Script Analysis	3 hrs
FIL 2423	Foundations of Production	3 hrs

3. Specialization. Choose one of the following 2 areas:

Visual Language (B.A.) (61 hrs)

This specialization concerns how to tell stories and communicate using the visual language of the moving image, animation, and cinematic visual effects.

3A: Visual Language – Program Core: (16 hrs)

ARH 2050	History of Western Art I	GEP
ART 2300C	Drawing Fundamentals I	3 hrs
ART 2301C	Drawing Fundamentals II	3 hrs
COP 2500C	Concepts in Computer Science	GEP
DIG 3485	Visual Language of Moving Image	3 hrs
DIG 3480C	Computers as Medium	4 hrs
DIG 3525	Digital Media Production I	3 hrs
MAC 1105	College Algebra	GEP

*See Transfer Notes for possible substitutions.

3B: Visual Language - Basic Concentration: (15 hrs)

Note: Admission to all courses after DIG 3485 is dependent on the student's achieving an 'A' or 'B' in DIG 3001 and an 'A' in the core course DIG 3485- Visual Language of the Moving Image.

DIG 3355	Artificial Environments & Effects	3 hrs
DIG 3362	Artificial Characters	3 hrs
DIG 3430	Visual Storytelling & Visual Develop	3 hrs
DIG 3523	The Production Process	3 hrs
DIG 4204	Generating and Manipulating Digital Imagery	3 hrs

3C: Visual Language - Advanced Concentration: (30 hrs)

Note: Admission to the Advanced Concentration is dependent on a portfolio review by faculty.

Choose 30 hours from the following courses:

DIG 4206C	New Imagery in Motion Workshop	4 hrs
DIG 4325C	Look Modeling Workshop	4 hrs
DIG 4326C	Geometric Modeling Workshop	4 hrs
DIG 4359C	Artificial Environment & Effects Workshop	4 hrs
DIG 4369C	Artificial Characters Workshop	4 hrs
DIG 4451C	Visual Storytelling & Visual Dev Workshop	4 hrs
DIG 4522	Digital Media Service	3 hrs
DIG 4524L	Digital Media Project I	3 hrs
DIG 4526C	Digital Media Production II	3 hrs
IDS 4786C	Production Software	3 hrs
DIG 4528	Digital Media Project II	3 hrs

Digital Interactive Systems (B.A.): (60 hrs)

Note: Admission to all courses after DIG 3001 is dependent on the student's achieving an 'A' or 'B' in DIG 3001.

3A: Digital Interactive Systems Program Core: (22 hrs)

COP 2500C	Concepts in Computer Science	GEP
DIG 3480C	Computers as Medium	4 hrs
DIG 3485	Visual Language of the Moving Image	3 hrs
DIG 3525	Digital Media Production I	3 hrs
DIG 3821	Creative Digital Problem Solving	3 hrs
DIG 3811	User Centered Design	3 hrs
DIG 3563	Information Management and Authorship	3 hrs
DIG 3153	Writing for Digital Media	3 hrs
MAC 1105	College Algebra	GEP

3B: Digital Interactive Systems Basic Concentration: (15 hrs)

DIG 3135C	Digital Imagery	3 hrs
DIG 3286C	Assembling Digital Media	3 hrs
DIG 3253	Digital Media Audio	3 hrs
DIG 4716L	Internet Interaction	3 hrs
DIG 4921C	E-Commerce I	3 hrs
FIL 3625	Interactive Entertainment	3 hrs

3C: Digital Interactive Systems Advanced Concentration: (21 hrs)

Select any seven of the following courses

DIG 3450C	Interactive Performance I	3 hrs
DIG 3855	Converging Media	3 hrs
DIG 4324	Modeling for Real-time Systems II	3 hrs
DIG 4455C	Interactive Performance II	3 hrs
DIG 4526C	Digital Media Production II	3 hrs
DIG 4640	Autonomous Media	3 hrs
DIG 4641	Creative Digital Devices	3 hrs
DIG 4713C	Game Design	3 hrs
DIG 4715C	Game Engines	3 hrs
DIG 4780	Modeling for Real-time Graphics	3 hrs
DIG 4630C	Media for E-Commerce II	3 hrs
EME 5050	Technology Integration	3 hrs
FIL 3534	Sound Design I	3 hrs
FIL 3625	Interactive Entertainment	3 hrs
FIL 4535C	Sound Design II	3 hrs
DIG 3134C	Internet Software Design	3 hrs
DIG 4528	Digital Media Project 2	3 hrs
DIG 5136C	Interactive Media Design	3 hrs

Or - any 3000 or 4000 level courses included in another Digital Media

UCF Degree Programs

Concentration or any other 3000 or 4000 level IDS/DIG Digital Media course.

4. Capstone Experience (4 hrs)

DIG 3035	Digital Media in the Workplace	1 hrs
DIG 4522	Digital Media Service	3 hrs
DIG 4524L	Digital Media Project I	3 hrs

5. Foreign Language Requirements (0-8 hrs)

BA requirements:

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. Electives (variable)

Electives will consist of 3000 and 4000-level courses as approved by the student's advisor. These electives may include DIG 4528 Digital Media Project 2, subject to acceptance in the project.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Semester Hours Required 120 hrs

Related Programs: Art, Computer Science, English, Film, Music
Related Minors: Art-Studio, Computer Information Technology, Computer Science, Digital Media, English-Technical Writing, Film, Music

Transfer Notes:

- Grades less than "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

EARLY CHILDHOOD EDUCATION (B.S.) PRE-KINDERGARTEN – PRIMARY (PK-3)

College of Education

Department of Child, Family and Community Sciences
ED 209

<http://pegasus.cc.ucf.edu/~ececuf>

E-mail: ece@mail.ucf.edu

Program Coordinator: TBA, 407-823-0045

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.75 overall GPA, with provisional acceptance for one semester if GPA is 2.5 (GPA must be 2.75 by the second semester).
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete education common program prerequisite courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should seek advising through the Early Childhood Education staff in the Education Complex, suite 206 or by email (ece@mail.ucf.edu) prior to registering for classes.
- The courses designated in 1. (General Education) and 2. (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.

- Students must earn a "C-" or better in each required Early Childhood Education course. However, a minimum overall 2.75 GPA in all courses within the major is required.
- Passing score on ALL three sections of the Florida Teacher Certification Examination (FTCE). See <http://www.fl DOE.org> for available test dates and test sites.
 - FTCE General Knowledge Test (GKT) – (if CLAST was used for admission) passing scores on the GKT is strongly recommended during semester 1 of the junior year and/or at the time of application to Internship I.
 - FTCE Professional Education Test (PEd) and Subject Area Examination (SAE – Prekindergarten/Primary PK-3) – passing scores strongly recommended prior to application for Internship II.
- 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.

1. UCF General Education Program (36 hrs)

A. Communication Foundation	(9 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation	(9 hrs)
1. General Education Program elective from section B1	3 hrs
2. General Education Program elective from section B2: Prefer REL 2300 World Religions, or PHI 2010 Introduction to Philosophy, or LIT 2110 World Literature I, or LIT 2120 World Literature II	3 hrs
3. General Education Program elective: Prefer second course from GEP section B1.	3 hrs
C. Mathematical Foundation	(6 hrs)
1. Prefer: MGF 1106 Finite Mathematics	3 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics	3 hrs
D. Social Foundation	(6 hrs)
1. Prefer: POS 2041 American National Government	3 hrs
2. Prefer: PSY 2012 General Psychology	3 hrs
E. Science Foundation	(6 hrs)
1. Prefer: PSC 1121 Physical Science	3 hrs
2. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles	3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (15 hrs)

MAC 1105	College Algebra	3 hrs
EDF 2130*	Child and Adolescent Development for Educators	3 hrs
EDF 2720*	Children in Schools: Legal, Ethical And Safety Concerns	3 hrs
EEC 4731	Health, Safety, and Nutrition for Young Children or similar course	3 hrs
Select one:		
ARE 2011	Early Childhood Art and Creativity or	3 hrs
MUE 2211	Early Childhood Music and Movement	

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Early Childhood Education Program Recommended Sequence of Required Upper Division Courses

Notes:

- All methods/specialization/foundations courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.75 is required in the professional, specialization and overall for admission to Internship II.
- Early Childhood Education majors take a variety of courses related to young children and their learning, development, and family environment. Students in this program are working toward certification in PreK-Primary (PK-3) with ESOL Endorsement. They take a series of core and specialization courses to prepare them

to teach in the schools and to demonstrate mastery of the Florida Educator Accomplished Practices (FEAP). Early and continuous field experiences are provided to enhance the Early Childhood Education major's program and to integrate theory and practice in actual school settings. Throughout the program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty.

Semester I (15 hrs)

EEC 3700	Social and Emotional Development of Young Children	3 hrs
EEC 4XXX	Early Childhood Education Theory and Practice	3 hrs
RED 3310	Early Reading, Writing and Language Arts	3 hrs
EEX 4751	Parent Involvement	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs

- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.

Semester II (15 hrs)

EEC 4604	Classroom Management and Guidance of Young Children	3 hrs
EEC 4207	Assessment and Evaluation of Young Children	3 hrs
TSL 4141	Issues in Second Language Acquisition	3 hrs
EEC 4268	Curriculum Activities in Early Childhood	3 hrs
EEX 3450	Young Children with Special Needs	3 hrs

- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing Semester II.

Summer (6 hrs)

EEC 4303	Planning Creative Activities in Early Childhood	3 hrs
RED 3012	Basic Foundations of Reading	3 hrs

- Passing score on the Subject Area Examination (Prekindergarten/Primary PK-3) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

Semester III (12 hrs)

MAE 4300	Math Curriculum and Assessment in Early Childhood	3 hrs
SCE 4304	Science Curriculum and Assessment in Early Childhood	3 hrs
RED 4311	Primary Reading, Writing, and Language Arts Curriculum and Assessment	3 hrs
EEC 3940	Integration Internship I (two full days per week)	3 hrs

- Based on recommendations above, the student should achieve a passing score on all applicable sections of the Florida Teacher Certification Examination prior to entry into Student Teaching (EEC 4943 Internship II).
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.

Semester IV (12 hrs)

EEC 4943	Student Teaching – Internship II	12 hrs
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- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

5. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: Two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

6. Departmental Exit Requirements

- Achieve a minimum overall 2.75 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished

Practices.

- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination. See <http://www.fldoe.org> for test dates and test sites.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Semester Hours Required 120 hrs

9. Recommended Four-Year Sequence of Courses

Note: This recommended sequence may vary at selected regional campus locations. Consult with your Education advisor and review your degree audit for more recent information.

Freshman Year

Fall (12 hrs)	Spring (15 hrs)
EDF 2005 Introduction to Education 3	EDG 2701 Teaching Diverse Pop 3
ENC 1101 English Composition I 3	ENC 1102 English Composition II 3
MGF 1106 Finite Mathematics 3	MAC 1105 College Algebra 3
PSY 2012 General Psychology 3	PSC 1121 Physical Science 3
	REL 2300 World Religions <i>or</i> 3
	PHI 2010 Intro to Phsphy <i>or</i>
	LIT 2110 World Lit I <i>or</i>
	LIT 2120 World Lit II

Summer (6 hrs)

POS 2041 Amer National Gov 3
ARE 2011 EC Art & Creativity <i>or</i> 3
MUE 2211 EC Music & Move

Sophomore Year

Fall (15 hrs)	Spring (12 hrs)
SPC 1600 Fund of Oral Comm 3	EDF 2130 Child and Adol Dev Ed* 3
EME 2040 Tech for Ed 3	EDF 2720 Child in Sch: Legal, Ethical and Safety Concerns* 3
BSC 1005 Biological Principles <i>or</i> 3	EEC 4731 Hlth, Safe, & Nutrit for Young Children or similar course 3
ANT 2511 The Human Species 3	GEP B3 elective (Prefer AMH 2020) 3
STA 2014C Princ of Stats <i>or</i> 3	
STA 1060C Basic Stats using MS Excel 3	
GEP B1 elective (Prefer AMH 2010) 3	

*Transfer Note: Courses taken at community colleges may substitute for select courses with the permission of the department.

Summer

Note: A passing score on all sections of the CLAST and/or GKT is required for admission to the program and thus must be completed prior to the Junior Year. Refer to www.fldoe.org for test dates and sites.

Junior Year

Fall (15 hrs)	Spring (15hrs)
EEC 3700 Soc & Emo Dev of Young 3	EEC 4604 Class Mgt Guid Yng Child3
EEC 4XXX EC Ed Theory and Pract 3	EEC 4207 Assess & Eval Yng Child 3
RED 3310 Erly Read, Writ & Lang Arts 3	TSL 4141 Issues in 2nd Lang Acq 3
EEX 4751 Parent Involvement 3	EEC 4268 Curri Activ in Early Child 3
TSL 4080 Theory & Prac of Teaching ESOL Students in Schools 3	EEX 3450 Yng Child Spec Needs 3
	FTCE Register in the Spring*

*Highly recommend to take and pass PED Test and PK-3 subject area exam of the FTCE - Refer to <http://www.fldoe.org> for test dates and sites.

Summer (6 hrs)

EEC 4303 Plan Creat Activities in EC 3
RED 3012 Basic Found of Read 3

*Please note: It is strongly recommended to take the Professional Education Test (PED) portion of the FTCE prior to entering the Senior Year, and the Pre-Kindergarten/Primary PK-3 Subject Area Examination portion of the FTCE prior to entry into student teaching (EEC 4943 Internship II).

Senior Year

Fall (12 hrs)	Spring (12 hrs)
MAE 4300 Math Curr & Assess in EC 3	EEC 4943 Student Teach-Intern II 12
SCE 4304 Sci Curr & Assess in EC 3	
RED 4311 Prim Read, Writ, & Lang Arts Curr and Asses 3	
EEC 3940 Integration Internship I (two full days per week) 3	

UCF Degree Programs

ECONOMICS (B.A.)

College of Business Administration

Department of Economics, BA2 305, 407-823-3266

<http://www.bus.ucf.edu/economics>

Major Advisor: R. Pennington, BA2 303B, 407-823-2640,

E-mail: robertp@mail.ucf.edu

The Bachelor of Arts in Economics is designed for students who wish to receive specialized training in economics within a broad liberal arts education.

- Several flexible tracks allow students to customize their education to their personal interests and career goals.
- These tracks can be coupled with a minor from many different Colleges to create a unique program for each student.

An Economics degree provides skills and training for careers in business, law, government, politics, teaching, research, and a variety of other areas. This degree also provides a strong foundation for future graduate studies in business, economics, law and public administration. Successful completion of this program leads to the Bachelor of Arts degree with a major in Economics.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog requirements.
- Students should consult with the major advisor for the Department.
- General Education Program and Common Program Prerequisite courses are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
Required: SPC 1600
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
Select MAC 1105 College Algebra (or Calculus)
Select STA 2023 Principles of Statistics 3 hrs
- D. Social Foundations 3 hrs
Select ECO 2013 Macroeconomics *or*
ECO 2023 Microeconomics 3 hrs
Select one: PSY 2012, SYG 2000 *or* ANT 2000 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

- ECO 2013 Principles of Macroeconomics GEP
ECO 2023 Principles of Microeconomics 3 hrs

3. Core requirements (16 hrs)

- ECO 3101 Intermediate Microeconomics 3 hrs
ECO 3203 Intermediate Macroeconomics 3 hrs
*ECO 3401 Quantitative Business Tools I 3 hrs
**ECO 3411 Quantitative Business Tools II 4 hrs
ECO 4451 Research Methods in Economics 3 hrs

*At UCF, students who have completed MAC 2233 (or any Calculus 1 & 2 sequence) and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

**STA 4163 or STA 4321 may substitute for ECO 3411.

4. Upper Division Restricted Electives (18 hrs)

All B.A. economics majors will be required to take six (6) electives by choosing one of the following tracks:

4.1 PRE-LAW TRACK (9 hrs)

- ECO 4751 Law and Economics
ECO 4303 History of Economic Thought
ECP 4403 Industrial Organization and Game Theory

Select any other three 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

4.2 POLITICAL ECONOMY TRACK (9 hrs)

- ECO 4504 Public Economics
ECO 4303 History of Economic Thought
ECS 4013 Economics of Developing Areas

Select any other three 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's

restricted elective courses. For double majors in Political Science, two of these electives can be selected from Political Science with advisor's approval.

4.3 PRIVATE ENTERPRISE TRACK (9 hrs)

- ECO 3223 Money and Banking
ECP 3203 Labor Economics
ECP 4403 Industrial Organization and Game Theory

Select any other three 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

4.4 INTERNATIONAL TRACK (9 hrs)

- ECO 3703 International Trade
ECO 4704 International Macroeconomics
ECS 4013 Economics of Developing Areas

Select any other three 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

4.5 ECONOMICS OF GOVERNMENTAL REGULATION (9 hrs)

- ECP 4302 Environmental & Natural Resource Economics
ECO 4504 Public Economics
ECP 3203 Labor Economics

Select any other three 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

4.6 GENERAL TRACK (18 hrs)

Select any six 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major courses. Two of these electives can be selected from a related discipline with advisor's approval.

It is possible to have a double track; however, only the first designated track will show up on the transcript.

For those students interested in preparing for graduate school in Economics and other graduate studies, the following courses are strongly recommended:

- ECO 3703 International Trade
ECO 4412 Econometrics
ECO 3410 Mathematical Economics
ECO 4504 Public Economics
ECP 4403 Industrial Organization and Game Theory

Students are also encouraged to select MAC 2311, 2312 and 2313 along with STA 4321 and 4322 as substitutes for ECO 3401 and ECO 3411. Minors in Mathematics or Statistics are also recommended to help prepare students for graduate school. Consult with the Department's major advisor on the appropriate minors to be paired with different tracks.

5. Required Minor (18 hrs min)

Completion of a minor in one of the following suggested areas: Mathematics, Statistics, Legal Studies, Environmental Studies, Digital Media, Computer Science, History, English, or any of the Social and Behavioral Sciences. Other minors may be selected with prior approval of the Economics Undergraduate Advisor.

6. Departmental Exit Requirements

- Students majoring in Economics must earn a grade of "C" (2.0) or better in each ECO, ECP, ECS course and in each course applied towards the major as well as a 2.0 overall average in the major.
- Computer Competency met by Research Methods course.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Economics B.S.B.A., Accelerated B.A./M.S.

Related Minors: Statistics, Mathematics, Legal Studies, Political Science, Psychology, Sociology, Computer Science

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- ECO 2013 and 2023 are prerequisites for all subsequent economics courses.

Four Year Plan of Study – B.A. Economics

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ECO 2023*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
MAC 1105* (or Calculus)	3	ENC 1102*	3
***Elective	3	STA 2023*	3
Must complete 9 hours in a summer semester			

Sophomore			
1st Term	15 hrs	2nd Term	15 hrs
ECO 2013*	3	ECO 3101	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
QMB 3201 (if no prior Calculus)	3	***Elective	3
Foreign Language	3	Foreign Language	3

C (2.0) or better grade required in each class

Junior			
1st Term	16 hrs	2nd Term	15 hrs
ECO 3203	3	ECO Elective	3
ECO 3411 (or STA 4163 or 4321)	4	ECO Elective	3
ECO Elective	3	Minor**	3
Minor**	3	Minor**	3
*** Elective	3	*** Elective	3

Senior			
1st Term	15 hrs	2nd Term	14 hrs
ECO Elective	3	ECO 4451	3
ECO Elective	3	Minor**	3
ECO Elective	3	***Elective	3
Minor**	3	***Elective	3
Minor**	3	***Elective	2

**18 hours (minimum) of minor required.

***General electives as required to reach 120 semester hours.

ECONOMICS, BUSINESS (B.S.B.A.)

College of Business Administration

Department of Economics, BA2 305, 407-823-3266

<http://www.bus.ucf.edu/economics>

Undergraduate Advising: BA2 101, 407-823-2184;

Major Advisor: R. Pennington, BA2 303B, 407-823-2640,

E-mail: robertp@mail.ucf.edu

The Business Economics major for the Bachelor of Science in Business Administration is designed for students who wish to receive specialized training in economics along with core skills in business administration. Several flexible tracks allow students to customize their education to their personal interests and career goals. This degree provides skills and training for careers in business and industry, law, government, politics, teaching, research, and a variety of other areas. This degree also provides a strong foundation for future graduate studies in business, economics, law and public administration. Successful completion of this program leads to the Bachelor of Science in Business Administration degree with a major in Economics.

Admission Requirements for Business Economics

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
Required: SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra (or Calculus)	3 hrs
Select CGS 2100CC Computer Fundamentals for Business	3 hrs
D. Social Foundations	
Select ECO 2013 Principles of Macroeconomics <i>or</i>	3 hrs
ECO 2023 Principles of Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a "C" (2.0) or better.

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs
ECO 2013	Principles of Macroeconomics	3 hrs
ECO 2023	Principles of Microeconomics	3 hrs
ECO 3401	Quantitative Business Tools I	3 hrs
CGS 2100CC	Computer Fundamentals for Business	3 hrs

*At UCF, students who have completed MAC 2233 (or any Calculus 1 & 2 sequence) and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Common Body of Knowledge (36 hrs)

First or subsequent semester in the College of Business

Administration:			
GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs	
GEB 3356	Introduction to International Business	4 hrs	
BUL 3130	Legal & Ethical Environ. of Business	4 hrs	
ECO 3411**	Quantitative Business Tools II	4 hrs	
FIN 3403	Business Finance	4 hrs	
MAN 3025	Management of Organizations	4 hrs	
ISM 3011	Essentials of Management Information Systems	4 hrs	
MAR 3023	Marketing	4 hrs	

Last Semester:			
MAN 4720	Strategic Management	4 hrs	

**STA 4163 or STA 4321 may substitute for ECO 3411

4. Special College and/or Departmental Requirements

- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Final exams will be given during Exam Week.
- Students must have at least a 2.0 GPA in the COB and major.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students majoring in Business Economics must earn a grade of "C" (2.0) or better in each ECO, ECP, ECS course and in each course applied towards the major as well as a 2.0 overall average in the major.

5. Required Major Courses (9 hrs)

ECO 3101	Intermediate Microeconomics	3 hrs
ECO 3203	Intermediate Macroeconomics	3 hrs
ECO 4451	Research Methods in Economics	3 hrs

6. Upper Division Restricted Electives (15 hrs)

All B.S.B.A. economics majors will be required to take five (5) electives by choosing one of the following tracks:

6.1 BUSINESS ECONOMICS TRACK

Restricted electives (9 hrs)

ECP 3203	Labor Economics
ECP 4403	Industrial Organization and Game Theory
ECO 3223	Money and Banking

Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

UCF Degree Programs

6.2 INTERNATIONAL TRACK

Restricted electives (9 hrs)

ECO 3703	International Trade
ECO 4704	International Macroeconomics
ECS 4013	Economics of Developing Areas

Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

6.3 PRE-LAW TRACK

Restricted electives (9 hrs)

ECO 4751	Law and Economics
ECP 3203	Labor Economics
ECP 4403	Industrial Organization and Game Theory

Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

6.4 FINANCIAL ECONOMICS TRACK

Restricted electives (9 hrs)

ECO 4412	Econometrics
ECO 3203	Money and Banking
ECO 4704	International Macroeconomics

Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses. For double majors in Finance, two of these electives can be selected from Finance with advisor's approval.

6.5 ECONOMICS OF GOVERNMENTAL REGULATION

Restricted electives (9 hrs)

ECP 4302	Environmental & Natural Resource Economics
ECO 4504	Public Economics
ECP 3203	Labor Economics

Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track's restricted elective courses.

6.6 GENERAL TRACK

Select any five 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major courses. One of these electives can be selected from a related discipline with advisor's approval.

It is possible to have a double track; however, only the first designated track will appear on the transcript.

For students interested in preparing for graduate school in Economics and other graduate studies, the following courses are strongly recommended:

ECO 3703	International Trade
ECO 4412	Econometrics
ECO 3410	Mathematical Economics
ECO 4504	Public Economics
ECP 4403	Industrial Organization and Game Theory

Students are also encouraged to select MAC 2311, 2312 and 2313 along with STA 4321 and 4322 as substitutes for ECO 3401 and ECO 3411.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives*** (variable)

Total Semester Hours Required 120 hrs

Related Programs: Economics B.A., Accelerated B.S.B.A./M.S.

Transfer Notes

- Courses taken at community colleges do not substitute for upper

division courses.

- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C"(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

Four Year Plan of Study - Business Economics

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ECO 2023*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
MAC 1105* (or Calculus)	3	ENC 1102*	3
***Elective	3	CGS 2100CC*	3
Must complete 9 hours in a summer semester			

Sophomore			
1st Term	15 hrs	2nd Term	15 hrs
ECO 2013*	3	ECO 3101	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
QMB 3201*(if no Calculus & Statistics)	3	***Elective	3
* "C" (2.0) or better grade required in each class			

Junior			
1st Term	15 hrs	2nd Term	15 hrs
ECO 3203	3	ECO Elective	3
ECO 3411	4	GEB 3356	4
MAR 3023	4	MAN 3025	4
GEB 3031	4	FIN 3403	4

Senior			
1st Term	16 hrs	2nd Term	14 hrs
ECO Elective	3	ECO 4451	3
ISM 3011	4	MAN 4720	4
ECO Elective	3	BUL 3130	4
ECO Elective	3	ECO Elective	3
ECO Elective	3		
***General electives as required to reach 120 semester hours.			

ECONOMICS (B.A./M.A.A.E.)

Accelerated Undergraduate/Graduate Program

Note: For detailed information about this program, see the description in the "Accelerated Undergraduate/Graduate Program" section of this *Undergraduate Catalog*.

ELECTRICAL ENGINEERING (B.S.E.E.)

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science,
Harris Corp Engineering Ctr., Rm 246,
407-823-2787; Fax: 407-823-5419
<http://www.eecs.ucf.edu>

Contact: Dr. Samuel Richie, E-mail: richie@mail.ucf.edu;
 Charlese Hilton-Brown, E-mail: chilton@mail.ucf.edu

Admission Requirements: none

Degree Requirements

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students (36+2 hrs)

The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

- A. Communication Foundations 9 hrs
 - 1. ENC 1101 & ENC 1102
 - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
 - 1. Select two courses from Historical Foundations
 - 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, *or* LIT 2120
- C. Mathematical Foundations 7 hrs
 - 1. Select MAC 2311, (PR: MAC 1114)
 - 2. Select STA 3032 (PR: MAC 2312)
- D. Social Foundations 6 hrs
 - 1. Prefer ECO 2013 *or* ECO 2023.
 - 2. ANT 2000, PSY 2012, *or* SYG 2000.
- E. Science Foundations 7 hrs
 - 1. Select PHY 2048/48L (PR: MAC 2311)
 - 2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, *or* MCB 1310

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **To enroll in ECE major courses, a 2.0 (C or better) in each course is required for those courses in section 2. marked with an asterisk (*).** Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311*	Calculus with Analytic Geometry I	GEP
MAC 2312*	Calculus with Analytic Geometry II	4 hrs
MAC 2313*	Calculus with Analytic Geometry III	4 hrs
MAP 2302*	Differential Equations	3 hrs
PHY 2048/48L*	Physics for Engineers & Scientists I	GEP
PHY 2049/49L*	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities <i>or</i> Social Sciences	GEP

3. Courses Required for the Engineering Core (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do **not** satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics <i>or</i>	
EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs

EGN 3420	Engineering Analysis	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
PHY 3101	Physics for Engineers & Scientists III	3 hrs

4. Courses Required for the Major (41 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Analog and Digital Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

5. Approved Technical Electives (10 hrs)

Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas such as microelectronics and wireless communications. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: Engineering Leadership, Intelligent Robotic Systems

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - 128 semester hours required

FIRST YEAR			
Fall	12 hrs ^{1,3}	Spring	15 hrs ^{1,3}
EGN 1006C Intro to Engr		1 EGN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I		3 *ENC 1102 English Comp II	3
*CHS 1440 Chem for Engrs		4 *SPC 1016 Tech Presentations	3
*MAC 2311 Calc with Analytic Geo I		4 *MAC 2312 Calc with Analy Geo II	4
		*PHY 2048/L Phys Eng I w/lab	4

UCF Degree Programs

Summer	11 hrs ¹
Historical Foundations 1a	3
*MAC 2313 Calc with Analytic Geo III	4
*PHY 2049 Phys for Engr/Sci II	3
*PHY 2049L Phys Lab En/Sci II	1

SECOND YEAR

Fall	15 hrs ¹	Spring	15 hrs ¹
*MAP 2302 Diff Equations	3	*Cultural & Hist Foundations	3
*PHY 3101 Phys for Engr/Sci III	3	EGN 3310 Engr Anal-Statics	3
*Science Foundations 2	3	EEL 3342C Intro to Dig Circ/Sy	3
*Social Foundations 1	3	EEL 3801 Intro to Cmptr Engr2	3
EGN 3420 Engineering Anal2	3	EEL 3004 Electrical Networks	3

Summer	6 hrs ¹
Historical Foundations 1b	3
*ECO 2013 Macroeconomics or	3
ECO 2023 Microeconomics	

THIRD YEAR

Fall	14 hrs	Spring	14 hrs
EEL 3306 Semicond Devices I	3	EEL 3307C Electronics I	4
STA 3032 Prob & Stats Engrs	3	EEL 3657 Linear Control Sys	3
EEL 4767C Cmptr Sys Design I	4	EEL 3552C Anal & Dig Comm	4
EEL 3123C Networks and Systems	4	EGN 3321 Engr Anal-Dynamics	3
		or	
		EGN 3358 Ther-Flds-Ht Transfer	

FOURTH YEAR

Fall	13 hrs	Spring	13 hrs
EEL 4750 Signal Proc Fund	3	Approved Technical Elective	3
EEL 3470 Electromagnetic Flds	3	Approved Technical Elective	3
EEL 4309C Electronics II	4	Approved Technical Elective	4
EEL 4914 Senior Design I	3	EEL 4915L Senior Design II	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 5. Approved Technical Electives.

Accelerated BS/MS Degree Program

The Electrical Engineering program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

ELECTRICAL ENGINEERING TECHNOLOGY - COMPUTER SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207, 407-823-4749; Fax: 407-823-4746
<http://www.ent.ucf.edu>

Coordinator: Dr. Alireza Rahrooh,
E-mail: rahrooh@pegasus.cc.ucf.edu

Admission Requirements none

Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (37+1 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2053C	
2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C	

2. Common Program Prerequisites (CPP) (6/8 hrs)

(C or better grades are required in all courses)

MAC 2253	Applied Calculus I	3/4 hrs
or MAC 2311	Calculus w/Analytical Geometry I	
MAC 2254	Calculus II or equiv	3/4 hrs
or MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	Physics I/Lab	GEP
or PHY 2048/L	Physics for Scientist & Engrs I	

3. Engineering Technology Core Requirements (25 hrs)

(C or better grades are required in all courses)

BSC 1005/L, BSC 1050/L, or GEO 1200/LBSC2010C	GEP
ENC 3241	Writing for the Technical Professional
MAC 1105	College Algebra
MAC 1114	College Trigonometry
MAC 2253	Applied Calculus I
or MAC 2311	Calculus w/Analytical Geometry I
MAP 3401	Problem Analysis
or MAC 2312	Calculus w/Analytical Geometry II
PHY 2053C	College Physics I
PHY 2054C	College Physics II
ETG 3541	Applied Mechanics
ETI 3651C	Computer Applications
ETI 3671	Technical Economic Analysis
ETI 3116	Applied Engrng Quality Assurance
ETI 4448	Applied Project Management
STA 2023	Statistical Methods I

4. Technical Specialization (56 hrs)

Lower Level Required and Elective Courses (20 hrs)

(C or better grades are required in all courses)

EST 3543C	Programmable Logic Controllers	3 hrs
CET 3323C	Digital Technology	4 hrs
CET 2364	System Applications in C	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
EET 2025C	Electrical Circuits	4 hrs
	Lower level technical elective	2 hrs

Upper Level Required Courses (30 hrs)

(C or better grades are required in all courses)

CET 3198C	Digital Systems	3 hrs
CET 3503	Microcomputer Technology I	3 hrs
CET 3383	Applied Systems Analysis I	3 hrs
CET 4333	Computer Organization & Design	3 hrs
CET 4427	Applied Database I	3 hrs
CET 4505	Applied Operating Systems I	3 hrs
EET 3716	Network Analysis	3 hrs
CET 4138C	Digital Programmable Devices	3 hrs
CET 4134C	Microprocessor Elec II	3 hrs
CET 4429	Applied Database II	3 hrs

Upper Level Technical Electives (6 hrs)

(C or better grades are required in all courses)

See faculty advisor for list of approved Technical Electives.

5. Departmental Exit Requirement (3 hrs)

(C or better grade is required)

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives (0-4 hrs)

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the

CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration)

Related Minors: Interdisciplinary Informatics Technology

Transfer Notes:

Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.

- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Computer Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Freshman Year

Fall	13 hrs	Spring	15 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	STA 2023 Statistical Methods	3
Biological science	4	MAC 1114 Trigonometry	3
Social Foundation	3	Social Foundation	3
		Cultural/Historical Foundation	3

Sophomore Year

Fall	16 hrs	Spring	14/15 hrs
SPC 1600 Oral Communications	3	MAC 2253 Applied Calc I	3/4
PHY 2053C College Physics I	4	or MAC 2311 Calc w Anly Geo	4
Cultural/Historical Foundation	3	EET 3085C Electricity and Electro	4
ETI 3651C Computer Appl	3	Cultural/Historical Foundation	3
CET 2364 Sys Appl in C	3	PHY 2054C College Physics II	4
Summer	6 hrs		
ENC 3241 Writing Tech Pros	3		
ETI 3671 Tech Econ Anal	3		

Junior Year

Fall	13/14 hrs	Spring	15 hrs
MAP 3401 Problem Analysis	3/4	CET 3323C Digital Technology	4
or MAC 2312 Calculus II		CET 3383 Appl Sys Anal I	3
or MAC 2254 Applied Calc II		CET 3198C Digital Systems	3
EET 2025C Electrical Circuits	4	EET 3716 Network Analysis	3
ETG 3541 Applied Mechanics	3	Lower level elective	2
EST 3543C Programmable Logic Cont	3		
Summer	9 hrs		
CET 4134C Micro Electronics II	3		
CET 4333 Computer Org	3		
CET 4138C Digital Prgml Devices	3		

Senior Year

Fall	15 hrs	Spring	12 hrs
CET 4427 Applied Database I	3	ETG 4950C Senior Design Proj	3
CET 3503 Microcomputer Tech I	3	CET 4429 Applied Database II	3
CET 4505 Appl Oper Sys I	3	ETI 4448 Appl Proj Management	3
ETI 3116 App Eng Quality Assur	3	Upper level elective	3
Upper level elective	3		

ELECTRICAL ENGINEERING TECHNOLOGY - ELECTRICAL SYSTEMS CONCENTRATION (B.S.E.E.T.)

**College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207, 407-823-4749; Fax: 407-823-4746**

<http://www.ent.ucf.edu>

Coordinator: Dr. Alireza Rahrooh,
E-mail: rahrooh@pegasus.cc.ucf.edu

Admission Requirements none

Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (37+1 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2053C	
2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C	

2. Common Program Prerequisites (CPP) (6/8 hrs)

(C or better grades are required in all courses)		
MAC 2253	Calculus I	3/4 hrs
or MAC 2311	Calculus w/Analytical Geometry I	
MAC 2254	Applied Calculus II or equiv	3/4 hrs
or MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I/Lab	GEP
or PHY 2048/L	Physics for Engrs & Scientists I	

3. Engineering Technology Core Requirements (25 hrs)

(C or better grades are required in all courses)		
BSC 1005/L, BSC 1050/L, GEO 1200/L, BSC2010C	GEP	
ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253	Applied Calculus I	CPP
or MAC 2311		
MAP 3401	Problem Analysis	CPP
or MAC 2312	Calculus II	
PHY 2053C	College Physics I	CPP
PHY 2054C	College Physics II	4 hrs
ETG 3541	Applied Mechanics	3 hrs
ETI 3651C	Computer Applications	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engrng Quality Assurance	3 hrs
ETI 4448	Applied Project Management	3 hrs
STA 2023	Statistical Methods I	GEP

4. Technical Specialization (56 hrs)

Lower Level Required and Elective Courses (25 hrs)

EST 3543C	Programmable Logic Controllers	3 hrs
CET 3323C	Digital Fundamentals	4 hrs
CET 2364	System Applications in C	3 hrs
EET 3143C	Electronic Devices and Circuits	4 hrs
EET 2025C	Electrical Circuits	4 hrs
EET 3085C	Electricity and Electronics	4 hrs
	Lower Level Technical Elective	3 hrs

Upper Level Required Courses (22 hrs)

(C or better grades are required in all courses)		
CET 3198C	Digital Systems	3 hrs
CET 3503	Microcomputer Technology I	3 hrs
CET 4134C	Microprocessor Electronics II	3 hrs
EET 3716	Network Analysis	3 hrs
EET 4158C	Linear Integrated Circuits	3 hrs
EET 4548	Power Systems	3 hrs
EET 4732C	Feedback Control Systems	4 hrs

Upper Level Technical Electives (9 hrs)

Select 9 hours from courses listed below:

(C or better grades are required in all courses)		
CET 4138C	Digital Programmable Devices	3 hrs
CET 4333	Computer Organization & Design	3 hrs

UCF Degree Programs

CET 4931	Current Topics in Tech	3 hrs
EET 4329C	Communication Systems	4 hrs
EET 4339C	Antennas and Propagation	3 hrs
EET 4359C	Digital Communications	4 hrs
EST 3222	Intro to Photonics	3 hrs

5. Departmental Exit Requirement (C or better grade is required) (3 hrs)

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: Interdisciplinary Informatics Technology

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Electrical Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Freshman Year			
Fall	13 hrs	Spring	12 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	STA 2023 Statistical Methods	3
Biological science	4	MAC 1114 Trigonometry	3
Cultural/Historical Foundation	3	Social Foundation	3
Sophomore Year			
Fall	16 hrs	Spring	15/16 hrs
SPC 1600 Oral Communications	3	MAC 2253 Applied Calc I	3/4
PHY 2053C College Physics I	4	or MAC 2311 Calc w Anly Geo	

Cultural/Historical Foundation	3	EET 3085C Electricity and Electro	4
ETI 3651C Computer Appl	3	CET 3323C Digital Technology	4
CET 2364 Sys Appl in C	3	PHY 2054C College Physics II	4
Summer	6 hrs		
ETI 3116 App Eng Quality Assur	3		
ENC 3241 Writing Tech Pros	3		

Junior Year

Fall	13/14 hrs	Spring	15 hrs
MAP 3401 Problem Analysis	3/4	Cultural/Historical Foundation	3
or MAC 2312 Calculus II		EET 3716 Network Anals	3
or MAC 2254 Applied Calc II		CET 3198C Digital Systems	3
EET 2025C Electrical Circuits	4	ETI 3671 Tech Economic Analysis	3
ETG 3541 Applied Mechanics	3	Social Foundation	3
Lower level elective	3		
Summer	10 hrs		
CET 4134C Microprocessor Elec II	3		
EET 3143C Elect Devices and Circuits	4		
Upper level elective	3		

Senior Year

Fall	15 hrs	Spring	13 hrs
EET 4548 Power Systems	3	ETG 4950C Sr. Design Proj	3
EET 4158C Linear Int Cir	3	Upper level elective	3
EST 3543C Programmable Logic Cont	3	EET 4732C Feedback Control	4
Upper level elective	3	ETI 4448 Applied Project Mgmt	3
CET 3503 Microcom Tech I	3		

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET)

AS to BSEET TRACK

Note: For detailed information about this program, see the AS to BS Program section.

ELECTRICAL ENGINEERING TECHNOLOGY - PHOTONICS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

ENGR 207, 407-823-0770; Fax: 407-823-4746

<http://www.ent.ucf.edu>

Coordinator: Dr. Al Ducharme, E-mail: ducharme@mail.ucf.edu

Admission Requirements

none

Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (37+1 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2053C	
2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C	

2. Common Program Prerequisites (CPP) (6/8 hrs)

(C or better grades are required in all courses)		
MAC 2253	Calculus I	3/4 hrs
or MAC 2311	Calculus w/Analytical Geometry I	
MAC 2254	Applied Calculus II or equiv	3/4 hrs
or MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I/Lab	GEP
or PHY 2048/L	Physics for Engrs & Scientists I	

3. Engineering Technology Core Requirements (22 hrs)

(C or better grades are required in all courses)		
BSC 1005/L, BSC 1050/L, BSC2010C	Writing for the Technical Professional	GEP
ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253	Applied Calculus I	CPP
or MAC 2311	Calculus w/Analytical Geometry I	
MAP 3401	Problem Analysis	CPP
or MAC 2254	Applied Calculus II	
or MAC 2312	Calculus w/Analytical Geometry II	

PHY 2053C	College Physics I	CPP
PHY 2054C	College Physics II	4 hrs
ETG 3541	Applied Mechanics	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engrng Quality Assurance	3 hrs
ETI 4448	Applied Project Management	3 hrs

4. Technical Specialization (60 hrs)
Lower Level Required and Elective Courses (21 hrs)

EST 3543C	Programmable Logic Controllers	3 hrs
CET 2364	System Applications in C	3 hrs
EET 3143C	Electronic Devices and Circuits	4 hrs
EET 2025C	Electrical Circuits	4 hrs
EET 3085C	Electricity and Electronics	4 hrs
STA 2023	Statistical Methods I	GEP
	Lower level elective	3 hrs

Upper Level Required Courses (30 hrs)
(C or better grades are required in all courses)

EET 3716	Network Analysis	3 hrs
EET 4158C	Linear Integrated Circuits	3 hrs
EET 4548	Power Systems	3 hrs
EST 3222	Intro to Photonics	3 hrs
EST 3213	Photonics Simulation	3 hrs
EST 3211	Wave Photonics	3 hrs
EST 4236	Laser Systems Technology	3 hrs
EST 4227	Photonics Sensors and Devices	3 hrs
EST 4256	Photonics Communication	3 hrs
ETM 4225	Manufacturing of Photonics	3 hrs

Upper Level Technical Electives (9 hrs)
(C or better grades are required in all courses)

Check with ENT faculty advisor for approved electives.

5. Departmental Exit Requirement (3 hrs)
(C or better grade is required)

- ETG 4950C Senior Design Project *or* EST 4259C Photonic Systems 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives (0-4 hrs)

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency

credit. The student must provide all supporting information to the ENT Department for this evaluation.

- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Photonics Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Freshman Year

Fall	13 hrs	Spring	14 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	STA 2023 Statistical Methods	3
Biological science	4	Cultural/Historical Foundation	3
Social Foundation	3	Social Foundation	3
		Lower level elective	2

Sophomore Year

Fall	16 hrs	Spring	14/15 hrs
SPC 1016 Fund of Technical Pres	3	MAC 2253 Applied Calc I	3/4
PHY 2053C College Physics I	4	<i>or</i> MAC 2311 Calc w Anly Geo	
Cultural/Historical Foundation	3	EET 3085C Electricity & Electronic	4
MAC 1114 Trigonometry	3	ETG 3541 Applied Mechanics	3
CET 2364 Systems Applications in C	3	PHY 2054C College Physics II	4
Summer	6 hrs		
ETI 3116 Appl Eng Quality Assur	3		
ENC 3241 Writing Tech Pros	3		

Junior Year

Fall	13/14 hrs	Spring	15 hrs
MAP 3401 Problem Analysis	3/4	ETI 3671 Tech Economic Analysis	3
<i>or</i> MAC 2312 Calculus II		Cultural/Historical Foundations	3
<i>or</i> MAC 2254 Applied Calc II		EST 3211 Wave Photonics	3
EET 2025C Electrical Circuits	4	EET 3716 Network Analysis	3
EST 3543C Prog Logic Cont	3	Upper level elective	3
EST 3222 Intro to Photonics	3		
Summer	10 hrs		
EET 3143C Electronic Devices & Circ	4		
ETI 4448 Applied Project Management	3		
Upper level elective	3		

Senior Year

Fall	15 hrs	Spring	12 hrs
EET 4548 Power Systems	3	EST 4256 Photonics Comm	3
EET 4158C Linear Int Cir	3	ETG 4950C Sen Design Project	3
EST 3213 Photonics Simulation	3	<i>or</i> EST 4259C Photonic Systems	
EST 4236 Laser Sys Tech	3	EST 4227 Photo Sensors & Device	3
ETM 4225 Manufacturing of Photonics	3	Upper level elective	3

ELEMENTARY EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED 209

<http://reach.ucf.edu/~elemed1>

Program Coordinators: Dr. Karri Williams and Dr. Robert Everett
 E-mail: kjwillia@mail.ucf.edu, Everett@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of

UCF Degree Programs

Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program (36 hrs)

- | | |
|---|---------|
| A. Communication Foundation | (9 hrs) |
| 1. ENC 1101 English Composition I | 3 hrs |
| 2. ENC 1102 English Composition II | 3 hrs |
| 3. Prefer SPC 1600 Fundamentals of Oral Communication | 3 hrs |
| B. Cultural-Historical Foundation | (9 hrs) |
| 1. Prefer: AMH 2010 U.S. History 1492-1877 | 3 hrs |
| 2. Prefer: ARH 2050 The History of Art I, <i>or</i> ARH 2051 The History of Art II, <i>or</i> MUL 2010 Enjoyment of Music | 3 hrs |
| 3. Prefer: AMH 2020 U.S. History 1877-present | 3 hrs |
| C. Mathematical Foundation | (6 hrs) |
| 1. Select: MAC 1105 College Algebra <i>or</i> MGF 1106 Finite Mathematics | 3 hrs |
| 2. Prefer: STA 1060C Basic Statistics using MS Excel <i>or</i> STA 2014C Principles of Statistics | 3 hrs |
| D. Social Foundation | (6 hrs) |
| 1. Prefer: POS 2041 American National Government | 3 hrs |
| 2. Prefer: PSY 2012 General Psychology | 3 hrs |
| E. Science Foundation | (6 hrs) |
| 1. Prefer: PSC 1121 Physical Science | 3 hrs |
| 2. Prefer: BSC 1005 Biological Principles | 3 hrs |

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

- | | |
|---------------------------------------|-------|
| EDF 2005 Introduction to Education | 3 hrs |
| EDG 2701 Teaching Diverse Populations | 3 hrs |
| EME 2040 Technology for Educators | 3 hrs |

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (8 hrs)

- | | |
|---|-------|
| EDF 2130** Child and Adolescent Development for Educators | 3 hrs |
| MAE 2801* Elementary School Mathematics | 4 hrs |
| PET 2081** Wellness, Children & Schools | 1 hr |

* MAC 1105 or MGF 1106 is a prerequisite for MAE 2801

**Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Lower Division Electives (7 hrs)

Students may select other electives but are advised to take the following courses to improve their preparation for the Subject Area Examination portion of the Florida Teacher Certification Examination:

- MAC 1105 College Algebra (if MGF 1106 taken for General Education Program) or MGF 1106 Finite Mathematics (if MAC 1105 taken for General Education Program)
- One associated science lab – BSC 1005L or PSC 1121L
- A second course from the preferred courses listed in the UCF General Education Program section B.2. above (ARH 2050, ARH 2051, *or* MUL 2010) or an additional science course.

5. Education Program Recommended Sequence of Required Upper Division Courses

Note: The following recommended sequence of required upper division courses may vary at regional campus locations.

Semester I (15 hrs)

- | | |
|--|-------|
| EDG 4410 Teaching Strategies and Classroom Mgmt (required prior to Internship I) | 3 hrs |
| EDF 4467 Learning Theory and Assessment | 3 hrs |
| LAE 3414 Children's Literature | 3 hrs |
| RED 3012 Basic Foundations of Reading (required prior to Internship I) | 3 hrs |
| TSL 4080 Theory and Practice of Teaching ESOL Students in Schools (required prior to Internship I) | 3 hrs |

- Prior to Internship I, the student must have completed each of the prerequisite courses indicated above with a letter grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly rec-

ommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>. Prerequisites for Internship I: EDG 4410, RED 3012, TSL 4080, MAE 2801.

Note: RED 4519, MAE 4326, ARE 4313, HLP 4722 and MUE 3210 are taken concurrently with EDE 3942 Internship I.

Semester II (Internship I Block) (12 hrs)

- | | |
|--|-------|
| RED 4519 Diagnostic & Corrective Reading Strategies | 3 hrs |
| MAE 4326 How Children Learn Math | 3 hrs |
| ARE 4313 Teaching Art in the Elementary School | 1 hr |
| HLP 4722 Teaching Elementary Health and Physical Education | 1 hr |
| MUE 3210 Teaching Music in the Elementary School | 1 hr |
| EDE 3942 Internship I | 3 hrs |

Summer (9 hrs)

- | | |
|--|-------|
| EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools | 3 hrs |
| RED 4XXX Practicum for Assessment and Instruction of Reading | 3 hrs |
| TSL 4141 Issues in Second Language Acquisition | 3 hrs |

Note: TSL 4141 may be moved to Semester III if student does not need to take 9 hours in summer.

Semester III (12 hrs)

- | | |
|--|-------|
| SCE 3310 Teaching Science in the Elementary School | 3 hrs |
| SSE 3312 Teaching Social Science in the Elem School | 3 hrs |
| LAE 4314 Teaching Language Arts in the Elementary School | 3 hrs |
| EEX 4003 Teaching Exceptional Children | 3 hrs |

- Passing score on the Subject Area Examination (Elementary Education K-6) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- All methods/specialization/foundations courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

Semester IV (Internship II Block) (12 hrs)

- | | |
|--------------------------------|--------|
| EDE 4943 Internship II | 11 hrs |
| EDE 4945 Internship II Seminar | 1 hr |

6. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. Departmental Exit Requirements

- Achieve a minimum overall 2.5 GPA within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed

- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

9. Total Semester Hours Required **120 hrs**

10. Recommended Four-Year Sequence of Courses

Note: This recommended sequence may vary at selected regional campus locations. Consult with your Education advisor and review your degree audit for more recent information.

Freshman Year

Fall (12 hrs)	Spring (13 hrs)
EDF 2005 Introduction to Education 3	EDG 2701 Teaching Diverse Pop 3
ENC 1101 English Composition I 3	ENC 1102 English Composition II 3
ARH 2050 The History of Art I 3	PSY 2012 General Psychology 3
MAC 1105 College Algebra 3	PSC 1121 Physical Science 3
	PSC 1121L Physical Science Lab 1

Summer (6 hrs)

MGF 1106 Finite Mathematics 3
POS 2041 American National Gov 3

Sophomore Year

Fall (15 hrs)	Spring (14 hrs)
AMH 2010 U.S. History 1492-1877 3	AMH 2020 US History 1877-present 3
BSC 1005 Biological Principles 3	MAE 2801 Elem Sch Math 4
EME 2040 Technology for Educators 3	STA 2014C Principles of Statistics 3
SPC 1600 Fund of Oral Comm 3	EDF 2130 Child & Adoles Dev Ed* 3
MUL 2010 Enjoyment of Music 3	PET 2081 Wellness, Children & Schools* 1

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Junior Year

Fall (15 hrs)	Spring (12 hrs)
EDG 4410 Teach Strat & Class Mgmt 3	RED 4519 Diagn & Corr Read Strat 3
EDF 4467 Learn Theory & Assmt 3	MAE 4326 How Children Learn Math 3
LAE 3414 Children's Literature 3	ARE 4313 Teach Art in the Elem Sch 1
RED 3012 Basic Found of Reading 3	HLP 4722 Teach Elem Hlth & PE 1
TSL 4080 Theory & Prac of Teach ESOL 3	MUE 3210 Teach Music in Elem Sch 1
Students in Schools 3	EDE 3942 Internship I 3

Summer (9 hrs)

EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch 3
RED 4XXX Practicum for Assmt & Instruct of Reading 3
TSL 4141 Issues in 2nd Lang Acquisition 3

Senior Year

Fall (12 hrs)	Spring (12 hrs)
SCE 3310 Teach Sci in Elem Sch 3	EDE 4943 Internship II 11
SSE 3312 Teach Soc Sci in Elem Sch 3	EDE 4945 Internship II Seminar 1
LAE 4314 Teach Lang Arts in Elem Sch 3	
EEX 4003 Teach Exceptional Children 3	

ENGINEERING TECHNOLOGY - DESIGN CONCENTRATION (B.S.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department, ENGR 207
<http://www.ent.ucf.edu>

Coordinator: Dr. Lucy Morse 407-823-4742; Fax: 407-823-4746

Admission Requirements **none**

Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program **(36+2 hrs)**

A. Communication Foundations 9 hrs	
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations 9 hrs	
C. Mathematical Foundations 6 hrs	
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations 6 hrs	
E. Science Foundations 8 hrs	

1. Select PHY 2053C
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, *or* MCB 1310

2. Common Program Prerequisites (CPP) **(6/8 hrs)**

(C or better grades are required in all courses)

MAC 2253	Calculus I	3/4 hrs
<i>or</i> MAC 2311	Calculus w/Analytical Geometry I	
MAC 2254	Applied Calculus II or equiv	3/4 hrs
<i>or</i> MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I/Lab	GEP
<i>or</i> PHY 2048/L	Physics for Engrs & Scientists I	

3. Engineering Technology Core Requirements **(21 hrs)**

ANT 2511, BSC 1005, BSC 1050, GEO 1200, MCB 1310 *or* GLY 1030

ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253	Applied Calculus I	CPP
<i>or</i> MAC 2311	Calculus w/Analytical Geometry I	
MAP 3401	Problem Analysis	CPP
<i>or</i> MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I	CPP
ETG 3541	Applied Mechanics	3 hrs
ETI 4448	Applied Project Management	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engrng Quality Assurance	3 hrs
ETI 4635	Technology Administration	3 hrs

4. Technical Specialization **(60 hrs)**

(C or better grades are required in all courses except lower level technical electives)

Lower Level Required and Elective Courses **(26 hrs)**

EST 3543C	Programmable Logic Controllers	3 hrs
CHM 1032, 1032L	General Chemistry, Lab	4 hrs
CET 2364	Systems Application in C	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
<i>or</i> EET 3086		
STA 2023	Statistical Methods I	GEP
	Approved Lower Level Technical Electives	12 hrs

Select one of the following two options to complete your BSET.

a. Mechanical Technology Track

Upper Level Required Courses **(22 hrs)**

EST 4502C	Metrology & Instrumentation	4 hrs
ETD 3350C	Applied CADD	3 hrs
ETG 3533C	Applied Engrng Strength of Materials	4 hrs
ETI 3421	Materials & Processes	3 hrs
ETM 4220	Applied Energy Systems	4 hrs
ETM 4331C	Applied Fluid Mechanics	4 hrs

Upper Level Technical Elective **(12 hrs)**

ETI 4480C	Applied Robotics	4 hrs
ETI 4700	Occupational Safety	3 hrs
ETM 4512C	Applied Design of Machine Elements	3 hrs
ETI 3418C	Computer Numerical Controls	3 hrs
ETM 4232C	Applied Heat Transfer	4 hrs
ETM 4755	Applied Air Conditioning	4 hrs
CET 3010	Introduction to Information Technology	3 hrs

b. Construction Technology Track

Upper Level Required Courses **(22 hrs)**

ETD 3350C	Applied CADD	3 hrs
ETG 3533C	Applied Engrng Strength of Materials	4 hrs
ETC 4206	Construction Estimating	3 hrs
ETC 4241C	Construction Materials & Methods	3 hrs
ETC 4242	Construction Contracts & Specs	3 hrs
ETC 4414C	Applied Structural Design I	3 hrs
ETC 4415C	Applied Structural Design II	3 hrs

Upper Level Technical Elective **(12 hrs)**

EST 4502C	Metrology & Instrumentation	4 hrs
ETC 4243	Building Systems	3 hrs
ETC 4XXX	Digital Cartology	3 hrs
ETI 3421	Materials & Processes	3 hrs
ETI 4700	Occupational Safety	3 hrs
ETM 4331C	Applied Fluid Mechanics	4 hrs
ETM 4220	Applied Energy Systems	4 hrs
GIS 3043C	GIS for Environmental Studies	3 hrs

5. Departmental Graduation Requirement **(3 hrs)**

(C or better grades are required in all courses)

■ ETG 4950C	Senior Design Project	3 hrs
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UCF Degree Programs

- A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hrs

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: Interdisciplinary Informatics Technology

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Schedule for the Design Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Engineering Technology – 128 semester hours required

Freshman Year

Fall	13 hrs	Spring	13 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	CHM 1032 General Chemistry	4
Biological science	4	MAC 1114 Trigonometry	3
Cultural/Historical Foundation	3	Social Foundation	3

Sophomore Year

Fall	13/14 hrs	Spring	15/16 hrs
SPC 1600 Oral Communications	3	Cultural/Historical Foundation	3
PHY 2053C College Physics I	4	STA 2023 Statistical Methods	3
Cultural/Historical Foundation	3	MAP 3401 Problem Analysis	3/4
MAC 2253 Applied Calc I	3/4	or MAC 2312 Calculus II	
or MAC 2311 Calc w Anly Geo		or MAC 2254 Applied Calc II	
		ETI 3671 Tech Econ Analysis	3
		Lower level elective	3

Summer

ETI 3116 App Eng Quality Assur	3
ENC 3241 Writing Tech Pros	3

Lower level elective 3

Junior Year

Fall	16 hrs	Spring	16 hrs
EET 3085C Electricity and Electro	4	Upper level elective	3
Lower level elective	3	CET 2364 Sys Appl in C	3
Social Foundation	3	ETI 4635 Tech Admin	3
ETG 3541 Applied Mechanics	3	ETG 3533C Appl. Eng Strength Mat.	4
ETD 3350C Appl CAD	3	Lower level elective	3

I. Mechanical Technology Track

Summer	7 hrs
ETM 4331C Appl Fluid Mech	4
ETI 4448 Applied Proj Mgmt	3

Senior Year

Fall	12 hrs	Spring	14 hrs
ETI 3421 Materials & Processes	3	EST 4502C Metro I Instr	4
EST 3543C Prog Log Controllers	3	ETG 4950C Sr Design Proj	3
Upper level elective	3	ETM 4220 Energy Systems	4
Upper level elective	3	Upper level elective	3

II. Construction Technology Track

Summer	6 hrs
Upper level elective	3
ETI 4448 Applied Proj Mgmt	3

Senior Year

Fall	15 hrs	Spring	12 hrs
EST 3543C Prog Log Controllers	3	ETG 4950C Sr Design Proj	3
ETC 4241C Construction Mat & Meth	3	ETC 4206 Construction Estimating	3
ETC 4414C Applied Structural Des I	3	ETC 4242 Const. Contracts & Spec	3
ETC 4415C Applied Structural Des II	3	Upper level elective	3
Upper level elective	3		

ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.) College of Engineering and Computer Science Engineering Technology (ENT) Department ENGR 207, 407-823-4742; Fax: 407-823-4746 <http://www.ent.ucf.edu>

Coordinator: Dr. Lucy Morse, E-mail: morse@mail.ucf.edu

Admission Requirements none

Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101, & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
1. Select PHY 2053C	
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200 or MCB 1310	

2. Common Program Prerequisites (CPP) (6/8 hrs) (C or better grades are required in all courses)

MAC 2253	Calculus I	3/4 hrs
or MAC 2311	Calculus w/Analytical Geometry I	
MAC 2254	Applied Calculus II or equiv	3/4 hrs
or MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I/Lab	GEP
or PHY 2048/L	Physics for Engrs & Scientists I	

3. Engineering Technology Core Requirements (21 hrs)

ANT 2511, BSC 1005, BSC 1050, GEO 1200, GEO 2370, or GLY 1030	GEP
ENC 3241	Writing for the Technical Professional
MAC 1105	College Algebra
MAC 1114	College Trigonometry
MAC 2253	Applied Calculus I
or MAC 2311	Calculus w/Analytical Geometry I
MAP 3401	Problem Analysis
	CPP

or MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I	CPP
ETG 3541	Applied Mechanics	3 hrs
ETI 4448	Applied Project Management	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engineering Quality Assurance	3 hrs
ETI 4635	Technology Administration	3 hrs

4. Technical Specialization (60 hrs)
(C or better grades are required in all courses except the lower level technical electives)

Lower Level Required and Elective Courses (25 hrs)

EST 3543C	Programmable Logic Controllers	3 hrs
CHM 1032, 1032L	General Chemistry, Lab	4 hrs
CET 2364	Systems Application in C	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
STA 2023	Statistical Methods I	GEP
Approved Lower Level Technical Electives		11 hrs

Upper Level Required Courses (18 hrs)

ETI 4640	Operations Management	3 hrs
ETD 3350C	Applied CADD	3 hrs
ETI 3690	Technical Sales	3 hrs
ETI 4186	Applied Reliability	3 hrs
ETI 4700	Occupational Safety	3 hrs
ETI 4205	Applied Logistics	3 hrs

Upper Level Technical Elective (Select 5) (17 hrs)

CET 3010	Introduction to Information Technology	3 hrs
EST 3222	Introduction to Photonics	3 hrs
ETC 4XXXC	Digital Cartography	3 hrs
ETG 3533C	Applied Engrng Strength of Materials	4 hrs
ETI 3418C	Computer Numerical Controls	3 hrs
ETI 3421	Materials & Processes	3 hrs
EST 4502C	Metrology & Instrumentation	4 hrs
ETM 4220	Applied Energy Systems	4 hrs
ETM 4331C	Applied Fluid Mechanics	4 hrs
GIS 3043C	GIS for Environmental Studies	3 hrs

5. Departmental Graduation Requirement (3 hrs)

- (C or better grades are required in all courses)**
- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hrs

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: Interdisciplinary Informatics Technology

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)

- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Operations Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Freshman Year

Fall	13 hrs	Spring	13 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	CHM 1032 General Chemistry	4
Biological science	4	MAC 1114 Trigonometry	3
Cultural/Historical Foundation	3	Social Foundation	3

Sophomore Year

Fall	13/14 hrs	Spring	12/13 hrs
SPC 1600 Oral Communications	3	Cultural/Historical Foundation	3
PHY 2053C College Physics I	4	STA 2023 Statistical Methods	3
Cultural/Historical Foundation	3	MAP 3401 Problem Analysis or	3/4
MAC 2253 Applied Calc I	3/4	MAC 2312 Calculus II	3
or MAC 2311 Calc w Anly Geo		or MAC 2254 Applied Calc II	
		ETI 3671 Tech Econ Analysis	

Summer

	10 hrs
ETI 3116 App Eng Quality Assur	3
ENC 3241 Writing Tech Pros	3
Lower level elective	4

Junior Year

Fall	16 hrs	Spring	16 hrs
EET 3085C Electricity and Electro	4	Upper level elective	3
Lower level elective	3	CET 2364 Sys Appl in C	3
Social Foundation	3	ETI 4635 Tech Admin	3
ETG 3541 Applied Mechanics	3	ETI 3690 Technical Sales	3
ETD 3350C Appl CAD	3	Lower level elective	4
Summer	6 hrs		
ETI 4700 Occup Safety	3		
ETI 4448 Applied Proj Mgmt	3		

Senior Year

Fall	15 hrs	Spring	14 hrs
ETI 4205 App Logistics	3	ETG 4950C Sr Design Proj	3
ETI 4640 Operations Mgmt	3	ETI 4186 Applied Reliability	3
EST 3543C Programmable Logic Cont	3	Upper level elective	4
Upper level elective	3	Upper level elective	4
Upper level elective	3		

**ENGINEERING TECHNOLOGY -
SPACE SYSTEMS CONCENTRATION (B.S.E.T.)**

**College of Engineering and Computer Science
Engineering Technology (ENT) Department**

<http://www.ent.ucf.edu>

Coordinator: Dr. Lucy Morse, 407-823-4742

Admission Requirements

none

Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program

(36+2 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101, ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs

UCF Degree Programs

1. Select PHY 2053C *or* PHY 2048
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, *or* MCB 1310

2. Common Program Prerequisites (CPP) (C or better grades are required in all courses) (6/8 hrs)

MAC 2253	Calculus I	3/4 hrs
<i>or</i> MAC 2311	Calculus w/Analytical Geometry I	
MAC 2254	Applied Calculus II or equiv	3/4 hrs
<i>or</i> MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I/Lab	GEP
<i>or</i> PHY 2048/L	Physics for Engrs & Scientists I	

3. Engineering Technology Core Requirements (21 hrs)

ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, <i>or</i> MCB 1310		GEP
ENC 3241	Writing for the Technical Professional	3 hrs
MAC 1105	College Algebra	GEP
MAC 1114	College Trigonometry	3 hrs
MAC 2253	Applied Calculus I	CPP
<i>or</i> MAC 2311	Calculus w/Analytical Geometry I	
MAP 3401	Problem Analysis	CPP
<i>or</i> MAC 2312	Calculus w/Analytical Geometry II	
PHY 2053C	College Physics I	GEP
ETG 3541	Applied Mechanics	3 hrs
ETI 4635	Technical Administration	3 hrs
ETI 3671	Technical Economic Analysis	3 hrs
ETI 3116	Applied Engineering Quality Assurance	3 hrs
ETI 4448	Project Management	3 hrs

4. Technical Specialization (60 hrs) (C or better grades are required in all courses except lower level technical electives)

Lower Level Required and Elective Courses (26 hrs)

EST 3543C	Prog Logic Controllers	3 hrs
CHM 1032, 1032L	General Chemistry with Lab	4 hrs
CET 2364	Systems Appl. in C	3 hrs
EET 3085C	Electricity and Electronics	4 hrs
AST 2002	Astronomy	3 hrs
STA 2023	Statistical Methods I	GEP
Approved Lower Level Technical Electives		9 hrs

Upper Level Required and Elective Courses (22 hrs)

ETI 4837C	Technology of Small Space Payloads	3 hrs
ETD 3350C	Applied CADD	3 hrs
EMA 4103	Space Environment	3 hrs
ETM 4220	Applied Energy Systems	4 hrs
ETI 4838	Flight Dynamics Technology	3 hrs
ETI 4835	Rocket Propulsion Technology	3 hrs
ETI 4836	Space Systems Technology	3 hrs

Upper Level Technical Electives (Select 4) (12 hrs)

ETG 3533C	Applied Engineering Strength of Materials	4 hrs
EST 4502C	Metrology & Instrumentation	4 hrs
ETI 4150	Spacecraft QA and Testing	3 hrs
ETI 4381	Ground System Design	3 hrs
EST 3222	Intro to Photonics	3 hrs

5. Departmental Graduation Requirement (3 hrs)

ETG 4950C	Senior Design Project	3 hrs
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A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the

CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hrs

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Space Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Freshman Year			
Fall	13 hrs	Spring	13 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	CHM 1032 General Chemistry	4
Biological science	4	MAC 1114 Trigonometry	3
Cultural/Historical Foundation	3	Social Foundation	3

Sophomore Year			
Fall	13/14 hrs	Spring	15/16 hrs
SPC 1600 Oral Communications	3	Cultural/Historical Foundation	3
PHY 2053C College Physics I	4	STA 2023 Statistical Methods	3
Cultural/Historical Foundation	3	MAP 3401 Problem Analysis	3/4
MAC 2253 Applied Calc I	3/4	<i>or</i> MAC 2312 Calculus II	
<i>or</i> MAC 2311 Calc w Anly Geo		<i>or</i> MAC 2254 Applied Calc II	
		AST 2002 Astronomy	3
		Lower level elective	3

Summer			
	9 hrs		
ETI 3116 App Eng Quality Assur	3		
ENC 3241 Writing Tech Pros	3		
Lower level elective	3		

Junior Year			
Fall	16 hrs	Spring	15 hrs
EET 3085C Electricity and Electro	4	Upper level elective	3
Lower level elective	3	CET 2364 Sys Appl in C	3
Social Foundation	3	ETI 3671 Tech Econ Analysis	3
ETG 3541 Applied Mechanics	3	ETI 4838 Flight Dynamics Tech	3
ETD 3350C Appl CAD	3	ETI 4635 Tech Admin	3
Summer			
	6 hrs		
ETI 4448 Project Management	3		
Upper level elective	3		

Senior Year			
Fall	15 hrs	Spring	13 hrs
ETI 4835 Rocket Prop Tech	3	ETG 4950C Sr Design Proj	3
EST 3543C Prog Log Control	3	ETM 4220 Energy Systems	4
ETI 4836 Space Systems Tech	3	EMA 4103 Space Environment	3
ETI 4837C Tech Small Space Payload	3	Upper level elective	3
Upper level elective	3		

ENGLISH - CREATIVE WRITING (B.A.)

College of Arts and Humanities
English Department, CNH 301
<http://english.ucf.edu>
E-mail: english@ucf.edu
 Contact: T. Krise, 407-823-2212

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit cannot be used in the major without prior approval from the department
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in English Degree: Additional Requirements (9 hrs)

Application and admission through the English Honors Committee and the Honors College

Fulfill University requirements for Honors in the Major Grade of "B" (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).

Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)

- A. Communication Foundations
 - Select ENC 1101 and ENC 1102 6 hrs
 - Prefer SPC 1600 Fund of Oral Com 3 hrs
- B. Cultural and Historical Foundations
 - Select one class from 1.B.1 list 3 hrs
 - Prefer LIT 2110 World Literature I 3 hrs
 - Prefer LIT 2120 World Literature II 3 hrs
- C. Mathematical Foundations
 - Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites

- ENC 1101* Composition I GEP
- ENC 1102 *Composition II GEP
- *See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)

- CRW 3013 Creative Writing for English Majors
- ENG 3014 Theory & Tech of Literary Study
- This is a prerequisite for all 4000 level AML, ENG, ENL, or LIT courses

4. Literary History Requirement (12 hrs)

Choose four courses from these two groupings

- a. Select at least one of these pre-1865 literature courses.
 - AML 3031 American Literature I
 - AML 3613 Narratives of Slavery
 - AML 4304 Whitman & Heirs
 - ENL 2012 English Literature I
 - ENL 4220 English Renaissance Poetry and Prose
 - ENL 4230 Eighteenth Century Studies
 - ENL 4240 English Romantic Writers
 - ENL 4311 Chaucer
 - ENL 4333 Shakespeare
 - ENL 4341 Milton and His Age
 - LIT 4374 Literature of the Bible
- b. Select at least one of these post 1865 literature courses
 - AML 3041 American Literature II
 - AML 3283 Contemp American Women's Fiction
 - AML 3614 Topics in African American Literature
 - AML 3615 Harlem, Haiti, and Havana
 - AML 3640 Native American Literature
 - AML 4101 American Novel
 - AML 4153 American Poetry at Mid-Century
 - AML 4155 Modern American Poetry
 - AML 4261 Literature of the South
 - AML 4265 Florida Writers
 - AML 4321 Modern American Literature
 - AML 4630 Latino/Latina Literature

- ENL 2022 English Literature II
- ENL 4101 English Novel
- ENL 4253 The Victorian Age: Poetry
- ENL 4262 Nineteenth Century British Prose
- ENL 4273 Modern British Literature
- LIT 3082 Continental European Fiction Since 1900
- LIT 3192 Caribbean Literature
- LIT 4043 Modern Drama as Literature
- LIT 4184 Irish Literature
- LIT 4303 Post-World War II Fiction

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5. Restricted Electives (18 hrs)

- a. Choose one of the following: 3 hrs
 - LIN 3010 Intro to Linguistics
 - LIN 4105 History of the English Language
 - LIN 4643 Cross Cultural Communication
 - LIN 4660 Linguistics and Literature
 - LIN 4680 Modern English Grammar
 - ENC 3211 Theory and Practice of Tech Writing
 - ENC 3241 Writing for the Technical Professional
 - ENC 3310 Magazine Writing I
 - ENC 3311 Advanced Expository Writing
 - ENG 3010 Practical Criticism
 - LIT 4554 Advanced Feminist Theory
 - b. Choose two of the following: 6 hrs
 - CRW 3120 Fiction Writing Workshop
 - CRW 3211 Creative Nonfiction Writing
 - CRW 3310 Poetry Writing Workshop
 - c. Choose two of the following: 6 hrs
 - CRW 4122 Adv Fiction Writing Workshop
 - CRW 4224* Adv Creative Nonfiction Writing
 - CRW 4320 Adv Poetry Writing Workshop
 - *May take ENC 4360 instead of CRW 4224 but not both
 - d. Choose one of the following: 3 hrs
 - CRW 3311 Structure of Verse
 - CRW 3610 Writing Scripts
 - CRW 3540 Literary Magazines
 - CRW 4114 History of Prose Style
- or any 3000 or 4000 CRW course not used to fulfill another requirement*

6. Departmental Exit Requirements

Maintain a minimum GPA of 2.0 in upper division required courses
 Computer Competency met by completion of CRW 3013

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Technical Writing, Literature

Related Minors: Linguistics, Technical Writing, Writing

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the

UCF Degree Programs

BA in Creative Writing if taken prior to transferring to UCF:
ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring		
ENC 1101 Composition I	3 CHM 1020* req# 1E1-GEP	3	
HUM 2210* req# 1B1-GEP	3 ENC 1102 Composition II	3	
MGF 1106* req# 1C1-GEP	3 LIT 2110 World Literature I	3	
POS 2041* req# 1D1-GEP	3 STA 1060C Stat Using Excel	3	
SPC 1600* req# 1A3-GEP	3 SPN 1120* req# Lang/Elect	4	

Sophomore Year

Fall	Spring		
BSC 1005* req# 1E2-GEP	3 CRW 3013 Creatv Wr Eng Maj	3	
LIT 2120 World Lit II	3 AML 3031* req# 4a-LitHis	3	
PSY 2012* req# 1D2-GEP	3 ENL 2012* req# 4a-LitHis	3	
Elective* Check restrictions	3 Elective* Check restrictions	3	
SPN 1121* req# Lang/Elect	4 SPN 2200* req# Lang/Elect	3	

Junior Year

Fall	Spring		
ENG 3014 Theor Tech of St	3 ENL 2022* req# 4b-LitHis	3	
AML 3041* req# 4b-LitHis	3 CRW 3120* req# 5b-ResEl	3	
CRW 3211* req# 5b-ResEl	3 CRW 4224* req# 5c-ResEl	3	
Elective* Check restrictions	3 Elective* Check restrictions	3	
Elective* Check restrictions	3 Elective* Check restrictions	3	

Senior Year

Fall	Spring		
LIN 4105* req# 5a-ResEl	3 CRW 3610* req# 5d-ResEl	3	
CRW 4122* req# 5c-ResEl	3 Elective* Check restrictions	4	
Elective* Check restrictions	3 Elective* Check restrictions	3	
Elective* Check restrictions	3 Elective* Check restrictions	3	

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://pegasus.cc.ucf.edu/~englae>

Program Coordinator: Dr. Jeff Kaplan, ED 122B, 407-823-2041,

E-mail: jkaplan@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36 hrs)

A. Communication Foundation (9 hrs)	
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation (9 hrs)	
1. Prefer: AMH 2010 U.S. History 1492-1877	3 hrs
2. Select: LIT 2110 World Literature I	3 hrs
3. Prefer: AMH 2020 U.S. History 1877-present	3 hrs
C. Mathematical Foundation (6 hrs)	
1. Prefer: MGF 1106 Finite Mathematics	3 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel <i>or</i>	3 hrs

STA 2014C Principles of Statistics		(6 hrs)
D. Social Foundation		(6 hrs)
1. Prefer: POS 2041 American National Government	3 hrs	
2. Prefer: PSY 2012 General Psychology	3 hrs	
E. Science Foundation		(6 hrs)
1. Prefer: PSC 1121 Physical Science	3 hrs	
2. Prefer: ANT 2511 The Human Species <i>or</i> BSC 1005 Biological Principles	3 hrs	

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005 Introduction to Education	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs
EME 2040 Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (12 hrs)

EDF 2130* Child & Adolescent Development for Educators	3 hrs
LIT 2110 World Literature I	GEP
LIT 2120 World Literature II	3 hrs
ENL 2012 English Literature I	3 hrs
ENL 2022 English Literature II	3 hrs

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (21 hrs)

EDG 4410** Teaching Strategies and Classroom Mgmt	3 hrs
EDF 4467** Learning Theory and Assessment	3 hrs
EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs
TSL 4080** Theory and Practice of Teaching ESOL Students in Schools	3 hrs
EEX 4074 Teaching Exceptional Students in Sec Settings	3 hrs
RED 4043 Content Reading Kindergarten through Gr 12	3 hrs
TSL 4141 Issues in Second Language Acquisition	3 hrs

**Prerequisite for Internship I

5. Specialization Requirements (21 hrs)

CRW 3013 Intro Creative Writing	3 hrs
ENG 3014 Theories of Literature	3 hrs
AML 3031 American Literature I	3 hrs
AML 3041 American Literature II	3 hrs
ENC 3311 Advanced Expository Writing	3 hrs
LAE 4361 Literacy Strategies for Middle and High Schools	3 hrs
LAE 4464*** Introduction to Adolescent Literature	3 hrs

***Community college transfer students may substitute a lower division English elective.

- Prior to Internship I, the student must have completed EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, TSL 4080 Theory and Practice of Teaching ESOL Students in Schools, and LAE 4464 Introduction to Adolescent Literature with a letter grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

6. Internship I Block (9 hrs)

ESE 3940 Internship I	3 hrs
LAE 4360 English Instructional Analysis	3 hrs
LAE 4342 Teaching Language/Composition	3 hrs

- All methods courses and at least 80% of all specialization courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of

- 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.
- Passing score on the Subject Area Examination (English 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

7. Internship II Block	(12 hrs)
ESE 4943 Internship II	11 hrs
ESE 4942 Internship II Secondary Seminar	1 hr

8. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four Year Sequence of Courses

Freshman Year			
Fall	(12 hrs)	Spring	(12 hrs)
EDF 2005 Introduction to Education	3	EDG 2701 Teaching Diverse Pop	3
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
MGF 1106 Finite Mathematics	3	POS 2041 Amer National Govt	3
PSY 2012 General Psychology	3	PSC 1121 Physical Science	3
Summer	(6 hrs)		
EME 2040 Tech for Educators	3		
LIT 2110 World Literature I	3		

Sophomore Year			
Fall	(15 hrs)	Spring	(12 hrs)
AMH 2010 U.S. History 1492-1877	3	AMH 2020 US History 1877-present	3
ANT 2511 The Human Species or	3	ENL 2012 English Literature I	3
BSC 1005 Biological Principles	3	EDF 2130 Child & Adol Dev for Ed*	3
LIT 2120 World Literature II	3	AML 3031 American Literature I	3
SPC 1600 Fun of Oral Comm	3		
STA 2014C Principles of Statistic or	3		
STA 1060C Basic Stat MS Excel	3		

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

**Note: Community college transfer students may substitute a 2XXX elective.

Summer	(6 hrs)		
TSL 4080 Theory & Prac of Teach ESOL 3			
Students in Schools			
ENL 2022 English Literature II	3		
Junior Year			
Fall	(15 hrs)	Spring	(15 hrs)
CRW 3013 Intro Creative Writing	3	AML 3041 American Literature II	3

TSL 4141 Issues in Second Language Acquisition	3	ENC 3311 Adv Expository Writ or	3
EDF 4467 Learn Theory & Assmt	3	LIN 4105 History of Eng Lang	3
EDG 4410 Teach Strat & Class Mgmt	3	LAE 4361 Lit Strat for Mid & Hi Sch	3
LAE 4464 Intro to Adol Literature	3	EDF 4603 Anal & Appl of Eth, Legal, 3	3
		& Safe Issues in Sch	3
		RED 4043 Content Reading K 12	3

Summer	(3 hrs)		
ENG 3014 Theories of Literature	3		

Senior Year			
Fall	(12 hrs)	Spring	(12 hrs)
ESE 3940 Internship I	3	ESE 4943 Intern II	11
LAE 4360 Eng Instructional Anal	3	ESE 4942 Intern II Semi Second	1
LAE 4342 Teach Lang/Composition	3		
EEX 4074 Teach Ex Stud in Sec Settings 3			

ENGLISH - LITERATURE (B.A.)

**College of Arts and Humanities
English Department, CNH 301**

<http://english.ucf.edu>

E-mail: english@ucf.edu

T. Krise, 407-823-2212

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit is not accepted in the major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in English Degree:

Additional Requirements (9 hrs)

Application and admission through the English Honors Committee and the Honors College

Fulfill University requirements for Honors in the Major Grade of "B" (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).

Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)

A. Communication Foundations	
Select ENC 1101 and ENC 1102	6 hrs
Prefer SPC 1600 Fund of Oral Com	3 hrs
B. Cultural and Historical Foundations	
Select one class from 1.B.1 list	3 hrs
Prefer LIT 2110 World Literature I	3 hrs
Prefer LIT 2120 World Literature II	3 hrs
C. Mathematical Foundations	
Select MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites

ENC 1101*	Composition I	GEP
ENC 1102*	Composition II	GEP

*See Transfer Notes for possible substitutes

3. Core - Gateway Courses (6 hrs)

- a. Prerequisite for all 4000 level AML, ENG, ENL, or LIT courses
ENG 3014 Theory & Tech of Literary Study 3 hrs
- b. Choose one gateway course:
CRW 3013 Creative Writing for English Majors 3 hrs
ENC 3211 Theory & Practice of Tech Writing

4. Literary History Requirement (15 hrs)

Choose five courses from the two groupings

- a. Select at least two of these pre-1865 literature courses.

AML 3031	American Literature I
AML 3613	Narratives of Slavery
AML 4304	Whitman & Heirs
ENL 2012	English Literature I
ENL 4220	English Renaissance Poetry and Prose

UCF Degree Programs

ENL 4230	Eighteenth Century Studies
ENL 4240	English Romantic Writers
LIT 4374	Literature of the Bible
b. Select at least two of these post 1865 literature courses	
AML 3041	American Literature II
AML 3283	Contemp American Women's Fiction
AML 3614	Topics in African American Literature
AML 3615	Harlem, Haiti, and Havana
AML 3640	Native American Literature
AML 4101	American Novel
AML 4153	American Poetry at Mid-Century
AML 4155	Modern American Poetry
AML 4261	Literature of the South
AML 4265	Florida Writers
AML 4321	Modern American Literature
AML 4630	Latino/Latina Literature
ENL 2022	English Literature II
ENL 4101	English Novel
ENL 4253	The Victorian Age: Poetry
ENL 4262	Nineteenth Century British Prose
ENL 4273	Modern British Literature
LIT 3082	Continental European Fiction Since 1900
LIT 3192	Caribbean Literature
LIT 4043	Modern Drama as Literature
LIT 4184	Irish Literature
LIT 4303	Post-World War II Fiction

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5. Upper Division Requirements (15 hrs)

a. Choose one single author or major author course 3 hrs

Note: Each semester, additional courses may satisfy this requirement.

Check with advisor for details.

AML 4300	Major American Authors	
ENL 4311	Chaucer	
ENL 4341	Milton	
ENL 4333	Shakespeare	
b. Choose one linguistics or theory course: 3 hrs		
ENG 3010	Practical Criticism	
LIN 3010	Principles of Linguistics	
LIN 4105	History of the English Language	
LIN 4643	Cross Cultural Communication	
LIN 4660	Linguistics and Literature	
LIN 4680	Modern English Grammar	
LIT 4554	Advanced Feminist Theory	
c. Choose three upper level courses: 9 hrs		
AML, ENL, or LIT prefix		

6. Departmental Exit Requirements

Maintain a minimum GPA of 2.0 in upper division required courses. Computer Competency met by completion of ENG 3014.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Creative Writing, Technical Writing

Related Minors: Creative Writing, Linguistics, Technical Writing, Writing

Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in Literature if taken prior to transferring to UCF:

ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However, ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring	
ENC 1101 Composition I	3 CHM 1020* req# 1E1-GEP	3
HUM 2210* req# 1B1-GEP	3 ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3 LIT 2110 World Literature I	3
POS 2041* req# 1D1-GEP	3 STA 1060C Stat Using Excel	3
SPC 1600* req# 1A3-GEP	3 SPN 1120* req# Lang/Elect	4

Sophomore Year

Fall	Spring	
BSC 1005* req# 1E2-GEP	3 ENG 3014 Theor Tech of St	3
LIT 2120 World Lit II	3 AML 3031* req# 4a-Hist	3
PSY 2012* req# 1D2-GEP	3 AML 3041* req# 4b-His	3
Elective* Check restrictions	3 Elective* Check restrictions	3
SPN 1121* req# Lang/Elect	4 SPN 2200* req# Lang/Elect	3

Junior Year

Fall	Spring	
CRW 3013* req# 3-Core	3 ENL 2012* req# 4a-Hist	3
ENL 2022* req# 4b-Hist	3 AML 4261* req# 4b-Hist	3
LIN 4105* req# 5b-UD	3 ENL 4333* req# 5a-UD	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

Senior Year

Fall	Spring	
AML 4101* req# 5c-UD	3 LIT 3383* req# 5c-UD	3
ENL 4253* req# 5c-UD	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	4
Elective* Check restrictions	3	

ENGLISH - TECHNICAL WRITING (B.A.)

College of Arts and Humanities

English Department, CNH 301

<http://english.ucf.edu>

E-mail: english@ucf.edu

Contact: T. Krise, 407-823-2212

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in English Degree: Additional Requirements (9 hrs)

- Application and admission through the English Honors Committee and the Honors College.
- Fulfill University requirements for Honors in the Major.
- Grade of "B" (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis.

- 1. UCF General Education Program** **(36 hrs)**
- A. Communication Foundations 6 hrs
 Select ENC 101, ENC 102 3 hrs
 Prefer SPC 1600 Fund of Oral Com 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 Prefer MGF 1106 Finite Mathematics 3 hrs
 (may substitute a higher level math)
- D. Social Foundations 3 hrs
 Prefer STA 1060C Statistics Using Excel
- E. Science Foundations 6 hrs
6 hrs

- 2. Common Program Prerequisites**
- ENC 1101* Composition I GEP
 ENC 1102* Composition II GEP
- *See Transfer Notes for possible substitutes

- 3. Core courses - Basic** **(6 hrs)**
- Choose one of the following: 3 hrs
- ENC 3211 Theory & Practice of TechWriting OR
 ENC 3241 Writing for the Technical Professional
- Choose one of the following: 3 hrs
- ENG 3014 Theory & Tech of Literary Study OR
 CRW 3013 Creative Writing for English Majors

- 4. Literary History Requirement** **(9 hrs)**
- Choose three courses from these two groupings

- a. Select at least one of these pre-1865 literature courses.
- AML 3031 American Literature I
 AML 3613 Narratives of Slavery
 AML 4304 Whitman & Heirs
 ENL 2012 English Literature I
 ENL 4220 English Renaissance Poetry and Prose
 ENL 4230 Eighteenth Century Studies
 ENL 4240 English Romantic Writers
 ENL 4311 Chaucer
 ENL 4333 Shakespeare
 ENL 4341 Milton and His Age
 LIT 4374 Literature of the Bible
- b. Select at least one of these post 1865 literature courses
- AML 3041 American Literature II
 AML 3283 Contemp American Women's Fiction
 AML 3614 Topics in African American Literature
 AML 3615 Harlem, Haiti, and Havana
 AML 3640 Native American Literature
 AML 4101 American Novel
 AML 4153 American Poetry at Mid-Century
 AML 4155 Modern American Poetry
 AML 4261 Literature of the South
 AML 4265 Florida Writers
 AML 4321 Modern American Literature
 AML 4630 Latino/Latina Literature
 ENL 2022 English Literature II
 ENL 4101 English Novel
 ENL 4253 The Victorian Age: Poetry
 ENL 4262 Nineteenth Century British Prose
 ENL 4273 Modern British Literature
 LIT 3082 Continental European Fiction Since 1900
 LIT 3192 Caribbean Literature
 LIT 4043 Modern Drama as Literature
 LIT 4184 Irish Literature
 LIT 4303 Post-World War II Fiction

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

- 5. Core requirements-Advanced** **(18 hrs)**
- ENC 4280 Technical Writing Style 3 hrs
 ENC 4293 Documentation and the Collaborative Process 3 hrs
 ENC 4294 Documentation and Client-Based Collaboration 3 hrs
 ENC 4295 Capstone Experience in Technical Writing 3 hrs
 ENC 4280 Technical Writing Style 3 hrs
 LIT 4433 Literature of Science and Technology 3 hrs
- And choose one of the following:
- ENC 4215 Technical Publication and Project Management 3 hrs
 ENC 4218 The Visual in Technical Communication 3 hrs

- 6. Restricted Upper Division Electives** **(3 hrs)**
- Choose one of the following:
- ENC 3311 Advanced Expository Writing
 ENC 4262 International Technical Communication
 ENC 4265 Writing for the Computer Industry
 ENC 4290 Usability Testing for Technical Communication
 ENC 4414 Writing and Hypertext

Optional course
 ENC 4941 Tech Writing & Editing Internship

- 7. Departmental Exit Requirements**
- Maintain a minimum GPA of 2.0 in upper division required courses
 - Computer Competency met by completion of ENC 4293

- 8. Foreign Language Requirements** **(0-8 hrs)**
- Admission:** Met by graduation requirement

Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

- 9. Electives** **(variable)**
- Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

- 10. University Minimum Exit Requirements**
- A 2.0 UCF GPA
 - 60 semester hours earned after CLEP awarded
 - 48 semester hours of upper division credit completed
 - 30 of the last 36 hours of course work must be completed in residency at UCF
 - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
 - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Creative Writing, Literature

Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Acceptable Substitutes for common program prerequisites to the BA in Technical Writing if taken prior to transferring to UCF:

- ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However, ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

ENVIRONMENTAL ENGINEERING (B.S.Env.E.)

**College of Engineering and Computer Science
 Civil & Environmental Engineering Department (CEE)**

ENG2 211, 407-823-2841; Fax: 407-823-3315

<http://www.cee.engr.ucf.edu>

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl, E-Mail: cpohl@mail.ucf.edu; *Associate Chair:* Shiou-San Kuo, Ph.D. P.E., E-Mail: kuo@mail.ucf.edu; *Environmental Program Coordinator:* C. David Cooper, Ph.D., P.E., E-mail: cooper@mail.ucf.edu

Admission Requirements: **none**

Degree Requirements

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students **(36+2 hrs)**

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs

UCF Degree Programs

A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

- A. Communication Foundations 9 hrs
 - 1. ENC 1101 & ENC 1102
 - 2. Prefer SPC 1016
 - B. Cultural and Historical Foundations 9 hrs
 - 1. Select two courses from Historical Foundations
 - 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, *or* LIT 2120
 - C. Mathematical Foundations 7 hrs
 - 1. Select MAC 2311 (PR: MAC 1114)
 - 2. Select STA 3032 (PR: MAC 2312)
 - D. Social Foundations 6 hrs
 - 1. Prefer ECO 2013 *or* ECO 2023.
 - 2. ANT 2000, PSY 2012, *or* SYG 2000.
 - E. Science Foundations 7 hrs
 - 1. Select PHY 2048/48L (PR: MAC 2311)
 - 2. Prefer GEO 1200
- (Note: Environmental Engineering Majors must satisfy both an Earth Science requirement AND a Biological Science requirement).

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L	Chemistry Fundamentals I	4 hrs
<i>or</i> CHS 1440	Fund of Chemistry for Engineers	
MAC 2311	Calculus with Analytic Geometry I	4 hrs
MAC 2312	Calculus with Analytic Geometry II	4 hrs
MAC 2313	Calculus with Analytic Geometry III	4 hrs
MAP 2302	Differential Equations	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities or Social Sciences	GEP

3. Courses Required for the Major (57 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
CHM 2045C	Chemistry Fundamentals I w/Lab	CPP
CHM 2046/46L	Chemistry Fundamentals II w/Lab	4 hrs
	Earth Science	GEP
	Biological Science	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3331	Mechanics of Materials	3 hrs
EGN 3343	Thermodynamics	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
EGN 3373	Principles of Electrical Engineering	3 hrs
CCE 4003	Intro to the Construction Industry	3 hrs
ENV 3001	Intro to Environmental Engineering	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
CWR 3201	Engineering Fluid Mechanics	3 hrs
CWR 4101C	Hydrology	3 hrs
CWR 4203C	Hydraulics	3 hrs
EES 4111C	Biological Process Control	3 hrs
EES 4202C	Chemical Process Control	3 hrs
ENV 4120	Air Pollution Control	3 hrs
ENV 4341	Solid Waste Management	3 hrs
ENV 4561	Environmental Engrng-Process Design	4 hrs

Note: Environmental engineering majors must complete both Earth Science and Biological Science coursework. See assigned academic advisor for list of approved courses.

4. Approved Technical Electives (8 hrs)

Technical electives are available in the BSEnvE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of

this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- Approved EnvE Design Course I 3 hrs
- Approved EnvE Design Course II 3 hrs
- Earn a minimum graduating GPA of 2.250 in the Major Courses from item 3. above, the technical electives from item 4. above, and the Approved EnvE Design Courses.
- EnvE students must take the Fundamentals of Engineering Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Chemistry, Civil Engineering, Construction Engineering.

Related Minors: Chemistry, Environmental Studies, Mathematics, Engineering Leadership.

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Environmental Engineering - 128 semester hours required

FIRST YEAR

Fall	14 hrs¹	Spring	15 hrs¹
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*MAC 2311 Calc w/Anal Geo I	4	*MAC 2312 Calc w/Anal Geo II	4
*ECO 2013 Macroeconomics <i>or</i> ECO 2023 Microeconomics	3	*PHY 2048/L Phys Engr I w/lab	4
*Biological Science	3	*Earth Science	3
EGN 1006C Intro to Engr	1	EGN 1007C Eng Conc & Meth	1

SECOND YEAR

Fall	16 hrs¹	Spring	17 hrs¹
*MAC 2313 Calc w/Anal Geo III	4	*MAP 2302 Diff Equations	3
*CHM 2045C Chemistry Funds I	4	*CHM 2046/L Chem Fund II/lab	4
*HUM/AMH/EUH I	3	*PHY 2049/L Phys Engr&Sci II	4
EGN 3310 Engr Anal-Statics	3	*HUM/AMH/EUH II	3
EGN 3613 Engrng Econ Anal	2	EGN 3321 Engr Anal-Dynamics	3

Summer

	9 hrs¹
*SPC 1016 Tech Presentations	3
EGN 3343 Thermodynamics	3
ENV 3001 Intro to Environ Eng	3

THIRD YEAR

Fall	15 hrs	Spring	15 hrs¹
CWR 3201 Engr Fluid Mech	3	CWR 4101C Hydrology	3
EGN 3331 Mech of Materials	3	CWR 4203C Hydraulics	3
STA 3032 Probly/Stats for Eng	3	ENV 4120 Air Pollution Contrl	3
ENV 4341 Solid/Haz Waste	3	*Cultural/Historical Elective	3
CCE 4003 Intro to Constr Indus	3	EGN 3373 Prin Elec Eng	3

FOURTH YEAR

Fall	13 hrs	Spring	14 hrs
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Technical Elective	3	Approved Proj Design Course	3
ENV 4561 Process Design	4	EES 4111C Biologcl Proc Cntrl	3
EES 4202C Chmcl Proc Control	3	Technical Elective	3
Approved Proj Design Course	3	Technical Elective	2
		*ANT/PSY/SYG	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

BS to PhD Program

The Environmental Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

ENVIRONMENTAL STUDIES TRACK

See **Interdisciplinary Studies – Environmental Studies Track**

EVENT MANAGEMENT (B.S.)

Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000

E-mail: hospitality@mail.ucf.edu

<http://www.hospitality.ucf.edu>

Dean: Abraham Pizam

Degree Requirements

1. UCF General Education Program (GEP) (36 hrs)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| Select MAC 1105 College Algebra | 3 hrs |
| Select CGS 2100C Computer Fundamentals for Bus or STA 2023 Statistical Methods I | 3 hrs |
| D. Social Foundations | |
| Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics | 3 hrs |
| Select one: PSY 2012, SYG 2000, ANT 2000 | 3 hrs |
| E. Science Foundation | 6 hrs |

2. Common Program Degree Requirements (3 hrs)

- | | |
|---|-------|
| HFT 1000 Introduction to Hospitality Management | 3 hrs |
|---|-------|

3. Foundations

- | | | |
|---|-------|--|
| Quantitative Tools | | |
| CGS 2100C Computer Fundamentals of Business | (GEP) | |
| or STA 2023 Statistical Methods I | | |
| ECO 2013 Macroeconomics | (GEP) | |
| or ECO 2023 Microeconomics | | |
| MAC 1105 College Algebra | (GEP) | |

4. Hospitality Management Core (25 hrs)

- | | |
|---|-------|
| HFT 2403 Hospitality Financial Accounting | 3 hrs |
| HFT 2500 Hospitality Marketing | 3 hrs |
| HFT 2220 Hospitality Human Resources | 3 hrs |
| HFT 2254 Lodging Operations | 3 hrs |
| HFT 3431 Hospitality Managerial Accounting | 3 hrs |
| HFT 3540 Guest Services Management | 3 hrs |
| HFT 4286 Hospitality Communications | 3 hrs |
| HFT 4462 Hospitality Industry Finance | 3 hrs |
| HFT 3933 Distinguished Hospitality Lectures | 1 hr |

5. Internship (3 hrs)

- | | |
|-------------------------|------|
| HFT 3940 Internship I | 1 hr |
| HFT 4941 Internship II | 1 hr |
| HFT 4944 Internship III | 1 hr |

6. Event Management Core (27 hrs)

- | | |
|--|-------|
| HFT 2750 The Event Industry | 3 hrs |
| HFT 3670 Hospitality & Event Risk Management | 3 hrs |

HFT 3512 Event Promotion	3 hrs
HFT 3443 Event Technology	3 hrs
HFT 3792 Event Design & Production	3 hrs
FSS 2221C Quantity Food Production	3 hrs
HFT 4802 Catering Management	3 hrs
HFT 4757 Event Management I	3 hrs
HFT 4791 Event Management II	3 hrs

7. Special College Requirements:

- Final exams will be given during Final Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

8. Restricted Electives (15 hrs)

Choose any courses from the list below for a total of 15 credit hours

HFT 3741 Meeting Management	3 hrs
HFT 4754 Exhibit and Trade Show Operations	3 hrs
HFT 3511 Convention Sales	3 hrs
HFT 4753 Convention Services	3 hrs
HFT 4795 Entertainment Arts and Events	3 hrs
HFT 3798 Fairs and Festivals	3 hrs
HFT 4561 Destination Marketing	3 hrs
HFT 4736 Destination Management	3 hrs
HFT 4796 International Events	3 hrs
HFT 4375 Advanced Trade Show Management	3 hrs

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

11. Unrestricted Electives (3-11 hrs)

As necessary to result in 120 total credit hours. Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF College of Hospitality Management.
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the event major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

FOUR YEAR PLAN OF STUDY FOR EVENT MANAGEMENT*

*Plan your required nine summer credit hours into your course of study.

Freshman Year			
Fall	15 Hrs	Spring	15 Hrs
ENC 1101	3 hrs	ENC 1102	3 hrs
Cult/Hist Found Seq. I	3 hrs	SPC 1600C	3 hrs
CGS 2100C	3 hrs	Cult/Hist Found Seq. II	3 hrs
HFT 1000	3 hrs	MAC 1105	3 hrs
PSY 2012, SYG 2000 or ANT 2000	3 hrs	HFT 2750	3 hrs
Sophomore Year			
Fall	15 hrs	Spring	15 hrs
Science Found I	3 hrs	Science Found II	3 hrs
ECO 2013 or ECO 2023	3 hrs	HFT2220	3 hrs
HFT 2500	3 hrs	HFT 2403	3 hrs
HFT 3443 Event Tech	3 hrs	Cult/Hist Foundation	3 hrs
HFT 3670 HosEvt Risk	3 hrs	HFT 3512 Event Promo	3 hrs
Junior Year			

UCF Degree Programs

Fall	16 hrs	Spring	16 hrs
HFT 3792 Evt Design	3 hrs	HFT 4802	3 hrs
FSS 2221C	3 hrs	HFT4286	3 hrs
HFT 3431	3 hrs	HFT 4462	3 hrs
HFT 2254	3 hrs	HFT 4941	1 hrs
HFT 3940	1 hrs	Hosp Event Elective	3 hrs
HFT 3540	3 hrs	Hosp Event Elective	3 hrs

Senior Year

Fall	13 hrs	Spring	15 hrs
HFT 4757	3 hrs	HFT4791 Evt Mgmt II	3 hrs
HFT 4944	1 hrs	HFT 3933	3 hrs
Hosp Event Elective	3 hrs	Hosp Event Elective	3 hrs
Free electives	6 hrs	Hosp Event elective	3 hrs
		Free electives	5 hrs

EXCEPTIONAL STUDENT EDUCATION (B.S.)

College of Education

Department of Child, Family and Community Sciences ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. María E. Blanes, ED 315-M,
407-823-5445, E-mail: mblanes@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should seek advising through the Exceptional Education faculty prior to registering for classes.
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.
- Passing scores on ALL three applicable sections of the Florida Teacher Certification Examination. See www.fldoe.org for available test dates and test sites.
 - FTCE General Knowledge Test (GKT) – (if CLAST was used for admission) passing score on the GKT is strongly recommended during Semester 1 of the junior year.
 - FTCE Professional Education Test (PED).
 - FTCE Subject Area Examination for Exceptional Student Education K-12.
 - In order to be highly qualified, you must take and pass a content area subject area examination.
- Students must earn a "C-" or better in each required Exceptional Education course

1. UCF General Education Program (36 hrs)

- A. Communication Foundation (9 hrs)
1. ENC 1101 English Composition I 3 hrs
 2. ENC 1102 English Composition II 3 hrs
 3. Prefer: SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundation (9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
 2. Prefer: LIT 2110 World Literature I, *or* LIT 2120 World Literature II, *or* PHI 2010 Introduction to Philosophy, *or* REL 2300 World Religion 3 hrs
 3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs
- C. Mathematical Foundation (6 hrs)
1. Prefer: MGF 1106 Finite Mathematics 3 hrs
 2. Prefer: STA 1060C Basic Statistics using MS Excel *or* STA 2014C Principles of Statistics 3 hrs
- D. Social Foundation (6 hrs)
1. Prefer: POS 2041 American National Government 3 hrs
 2. Prefer: PSY 2012 General Psychology 3 hrs
- E. Science Foundation (6 hrs)
1. Prefer: PSC 1121 Physical Science 3 hrs

2. Prefer: ANT 2511 The Human Species *or* BSC 1005 Biological Principles 3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (15 hrs)

EDF 2130*	Child and Adolescent Development for Educators	3 hrs
EDF 2720*	Children in Schools: Legal, Ethical And Safety Concerns	3 hrs
EEX 2010	Introduction to Special Education	3 hrs
EEX 2758*	Enhancing Family Involvement in Education	2 hrs
MAE 2801	Elementary School Mathematics	4 hrs

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Exceptional Education Program Recommended Sequence of Required Courses

Exceptional Education majors take a variety of courses related to children, adolescents, and adults with special needs, and their learning, development, and family environment. Students majoring in Exceptional Education take a series of core and specialization courses to prepare them to teach in the schools and to demonstrate the Florida Educator Accomplished Practices (FEAP). Early and continuous field experiences are provided to enhance the Exceptional Education major's program and to integrate theory and practice in actual school settings. Throughout the Exceptional Education program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty.

Semester I (12 hrs)

EDG 4410*	Teaching Strategies and Classroom Management	3 hrs
EEX 3241*	Methods of Academic Skills for Exceptional Students	3 hrs
RED 3012*	Basic Foundations of Reading	3 hrs
TSL 4080*	Theory and Practice of Teaching ESOL Students in Schools	3 hrs

*Courses to be taken prior to Internship I

Semester II (15 hrs)

EDF 4467	Learning Theory and Assessment	3 hrs
EEX 3243	Techniques for Exceptional Adolescents and Adults	3 hrs
LAE 4314	Language Arts in Elementary School	3 hrs
TSL 4141	Issues in Second Language Acquisition	3 hrs

Methods Content Area Course I – Select one from:

SCE 3310	Teaching Science in Elementary School	<i>or</i>	3 hrs
SSE 3312	Teaching Social Science in the Elementary School	<i>or</i>	3 hrs
LAE 3414	Literature for Children		3 hrs

Please note: It is strongly recommended to take the Professional Education Test (PED) portion of the FTCE during Semester II

Semester III (Summer) (6 hrs)

EEX 3221	Assessment of Exceptional Students	3 hrs
EEX 4066	Curriculum, Theory & Instructional Strategies for Students with Special Needs	3 hrs

- Please note: It is strongly recommended to take the Professional Education Test (PED) and the Exceptional Education Subject Area Exam portions of the Florida Teacher Certification Exam (FTCE) after completion of Semester I and II, but prior to Semester III and IV.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.
- All methods courses and at least 80% of all specialization courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

Semester IV (15 hrs)

EEX 3942	Internship I	3 hrs
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EEX 4601*	Introduction to Behavior Management	3 hrs
EEX 4763	Technology for Classroom Teachers of Students with Special Needs	3 hrs
RED 4519*	Diagnostic & Corrective Reading Strategies	3 hrs
Methods Content Area Course II – Select one from:		3 hrs
(In addition to Semester II)		
SCE 3310	Teaching Science in Elementary School	
SSE 3312	Teaching Social Science in the Elementary School	
LAE 3414	Literature for Children	
MAE 4326*	How Children Learn Mathematics	

*To enroll in these courses, you must be registered for EEX 3942 Internship I.

- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.
- A passing score on all applicable sections of the Florida Teacher Certification Examination (General Knowledge Test, Professional Education Test, and Subject Area Examination for Exceptional Student Education K-12 if strongly recommended before entry into student teaching (EEX 4941 Internship II).

Semester V		(12 hrs)
EEX 4943	Student Teaching – Internship II	9 hrs
RED 4XXX	Practicum for Assessment and Instruction of Reading	3 hrs

- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065.
- All methods courses and at least 80% of all specialization courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

5. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

6. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a Live text portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Semester Hours Required 120 hrs

9. Recommended Four-Year Sequence of Courses

Note: This recommended sequence may vary at selected regional campus locations. Consult with your Education advisor and review your degree audit for more recent information.

Freshman Year			
Fall	(12 hrs)	Spring	(15 hrs)
EDF 2005	Introduction to Education	3	EDG 2701 Teaching Diverse Pop
ENC 1101	English Composition I	3	ENC 1102 English Composition II
MGF 1106	Finite Mathematics	3	EDF 2130 Child and Adol Dev Ed
PSY 2012	General Psychology	3	PSC 1121 Physical Science
			REL 2300 World Religions <i>or</i>
			PHI 2010 Intro to Philosophy <i>or</i>
			LIT 2110 World Lit I <i>or</i>
			LIT 2120 World Lit II

Summer	(6 hrs)
POS 2041	American National Gov
EME 2040	Technology for Educators

Sophomore Year

Fall	(12 hrs)	Spring	(12 hrs)
SPC 1600	Fund of Oral Comm	3	AMH 2020 U.S. History 1877-present
AMH 2010	U.S. History 1492-1877	3	EEX 2758 Enhanc Family Involve in Ed
ANT 2511	The Human Species <i>or</i>	3	EDF 2720 Child in Sch: Legal,
BSC 1005	Biological Principles		Ethical and Safety Concerns
STA 2014C	Princ of Stats <i>or</i>	3	MAE 2801 Elem School Math
STA 1060C	Basic Stats using MS Excel		
Summer	(3 hrs)		
EEX 2010	Intro to Special Ed	3 hrs	

*Please note: A passing score on the FTCE General Knowledge Test (GKT) portion of the Florida Teacher Certification Examination is required prior to admission to the Exceptional Education Program.

Junior Year

Fall	(12 hrs)	Spring	(15 hrs)
EDG 4410	Teach Strat & Class Mgmt	3	EEX 3243 Techniques for
TSL 4080	Theory & Prac of Teach	3	Except Adolescents and Adults
	ESOL Students in Schools		LAE 4314 Literature for Children
EEX 3241	Meth of Acad Skills for Ex Stud	3	EDF 4467 Learn Theory & Assmt
RED 3012	Basic Found of Read	3	TSL 4141 Issues in 2nd Lang
			Acquisition
			Select an approved Methods
			Content Area Course*

*Approved Methods Content Area Courses: SCE 3310, SSE 3312, LAE 3414
Please note: It is strongly recommended to take the Professional Education Test (PED) portion of the FTCE during Semester II

Summer	(6 hrs)
EEX 3221	Assess of Exceptional Stud
EEX 4066	Curr, Theory & Instruct
	Strat for Students with Spec Needs

Note: It is strongly recommended to take the Subject Area Examination (SAE) portion of the FTCE during Semester III.

Senior Year

Fall	(15 hrs)	Spring	(12 hrs)
EEX 4763	Tech for Classroom Teach	3	EEX 4941 Student Teach – Internship II
	of Students with Special Needs		RED 4XXX Practicum for
EEX 4601	Intro to Behavior Management	3	Assess & Instruction of Reading
EEX 3942	Internship I	3	
RED 4519	Diagn & Corr Read Strat	3	
	Select one approved Methods	3	
	Content Area Course*		

*Methods Content Area Course – Choose one from (must be different from the course selected during Junior Year Spring Term):
SCE 3310, SSE 3312, LAE 3414, **MAE 4326

**To enroll in this course, you must be registered for EEX 3942 Internship I.

FILM - B.F.A.

College of Arts and Humanities
Film, COMM 121, 407-823-4285

<http://www.film.ucf.edu>

E-mail: film@mail.ucf.edu

Division Head: S. Schlow, 407-823-2845

Admission Requirements

Limited Access

- The Film BFA major is a limited access program.
- Entrance into most Film classes is restricted to majors. Exceptions must be approved by Division Head.
- Applications to become a Film BFA major are required by December 15 for admission to the subsequent Fall term
- A portfolio review is required for entry into the Film BFA major. Contact the Film Division for details or visit the website, <http://www.film.ucf.edu>.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of "B" (3.0) or better in Film major courses.
- A maximum of six credit hours of internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- Students must consult with a departmental advisor each

UCF Degree Programs

semester.

- All students are required to pay a fee for equipment insurance.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- The Film BFA demands a closely integrated curriculum. Therefore, transfers are not generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System may be admitted.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
Prefer one class from 1.B.1 list 3 hrs
Prefer FIL 2400 3 hrs
Prefer one class from either 1.B.1 or 1.B.2 3 hrs
- C. Mathematical Foundations
Select MGF 1106 3 hrs
(may substitute a higher level math)
Prefer CGS 1060C *or* 3 hrs
STA 1060C
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

- FIL 2400* History of the Motion Pictures
FIL 1007 Foundations of Story 3 hrs

*See Transfer Notes for possible substitutions

3. Lower Level Core Requirements (18 hrs)

- FIL 2107 Script Analysis 3 hrs
FIL 1009 Cinematic Expression for Majors 3 hrs
FIL 2274C Editing I 3 hrs
FIL 2480 Directing I 3 hrs
FIL 2200 Cinematography I 3 hrs
FIL 2481 Directing the Actor for Film I 3 hrs

4. Upper Level Core Requirements (42 hrs)

- DIG 3001 Digital Media Principles 3 hrs
FIL 3124 Short Script I 3 hrs
FIL 3201C Intro to Film Production 3 hrs
FIL 3534 Sound Design for Film I 3 hrs
FIL 3401 Film History I 3 hrs
FIL 3402 Film History II 3 hrs
FIL 3503C Film Theory and Criticism I 3 hrs
FIL 3922 Film Colloquium 6 hrs
(Six semesters of Colloquium required at 1 hr each)
FIL 4486C Directing II 3 hrs
FIL 4604 The Film Producer 3 hrs
FIL 4607 Film Production Management 3 hrs

- Select one course: 3 hrs
FIL 3125 Short Script II
FIL 4111C Feature/TV Writing

5. Upper Level Restricted Electives (12 hrs)

Select four courses from the following. Must complete all core requirements before taking these courses. A maximum of six hours of Independent Study may be substituted with advisor's prior approval.

■ Production/Direction

- FIL 3300C Film Documentary
FIL 3625 Interactive Entertainment
FIL 4210C Cinematography II
FIL 4535C Sound Design for Film II
FIL 4213 Sound Design for Film III
FIL 4223 Design for Film
FIL 4487 Directing III
FIL 4294C Editing II

■ Screen Writing

- FIL 4103 Adaptation
FIL 4112C Feature/TV Writing II
FIL 4113C Interactive Writing I
FIL 4114C Interactive Writing II
FIL 4506C Genre Writing
FIL 4906 Independent Study

■ Cinema Studies

- FIL 3309 Women in Film
FIL 3412 Black Cinema
FIL 3418 Avant-Garde Cinema
FIL 3504C Film Theory and Criticism II
FIL 3511 French New Wave Cinema
FIL 3512 Italian Neo-Realist Cinema
FIL 3513 Latin American Cinema
FIL 3520 Italian Film
FIL 3521 French Film
FIL 3522 German Film
FIL 3551 American Cinema
FIL 3XXX American Film Artist
FIL 4XXX Film Theory/Film /Production

■ Digital Cinema

- ART 2820 Art as Interface
ART 3618C Post-Production Design
COP 3502C Computer Science I
DIG 3855 Converging Media
DIG 3135C Digital Imagery
DIG 4780 Modeling for Realtime Graphics
ENC 4415 Digital Rhetoric & Modern Dialectic
DIG 3134C Internet Software Design
MUC 3311 MIDI Sequencing I

6. Capstone Courses (6 hrs)

- FIL 4203C Capstone I 3 hrs
FIL 4211C Capstone II 3 hrs

7. Departmental Exit Requirements

- A student must maintain an overall average of "B" (3.0) or better in major courses.
- Computer competency met by CGS 1060C or STA1060C.
- Department of Film requires taking an exit examination.

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Digital Media, Music, Theatre, Radio/TV, World Cinema

Related Minors: Art, Cinema Studies, Creative Writing, Digital Media, Music, Theatre

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable substitutes for Common Program Prerequisites

- FIL 2400 may substitute FIL 1000, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory film writing course. However, FIL 1007 is a prerequisite for all major courses and must be taken.

FILM - CINEMA STUDIES TRACK (B.A.)

College of Arts and Humanities
Film, COMM 121, 407-823-4285

<http://www.film.ucf.edu>
E-mail: film@mail.ucf.edu

Division Head: S. Schlow, 407-823-2845

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average of "B" (3.0) or better in major courses.
- Film production/directing classes are not open to Cinema Studies majors.
- Cinema Studies Track is not an entree into the BFA Film Program.
- Co-op or internship credit cannot be used in this major.
- Students must consult with a departmental advisor each semester.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program **(36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 3 hrs
 - Prefer one course from 1.B.1 list 3 hrs
 - Prefer FIL2400 3 hrs
 - Prefer one course from 1.B.1 or 1.B.2 list 3 hrs
- C. Mathematical Foundations 3 hrs
 - Select MGF 1106 3 hrs
 - (may substitute a higher level math)
 - Prefer CGS 1060C *or* 3 hrs
 - STA 1060C
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites **(3 hrs)**

- FIL 2400* GEP History of the Motion Pictures 3 hrs
- FIL 1007* 3 hrs Foundations of Story

*See Transfer Notes for possible substitutes

3. Core Requirements **(48 hrs)**

- DIG 3001 3 hrs Digital Media Principles
- FIL 1008 3 hrs Cinematic Expression/Aesthetics
- FIL 2107 3 hrs Script Analysis
- FIL 2423 3 hrs Foundations of Production
- FIL 3006 3 hrs Art of the Cinema
- FIL 3102 3 hrs Writing for Film and TV *or*
- FIL 3124 3 hrs Short Script
- FIL 3252C 3 hrs Cinematic Expression
- FIL 3300C 3 hrs Film Documentary
- FIL 3401 3 hrs Film History I
- FIL 3402 3 hrs Film History II
- FIL 3418 3 hrs Avant-Garde Cinema
- FIL 3503C 3 hrs Film Theory and Criticism I
- FIL 3504C 3 hrs Film Theory and Criticism II
- FIL 3510 3 hrs World Cinema Traditions
- FIL 3551 3 hrs American Cinema
- FIL 4604 3 hrs The Film Producer

4. Restricted Upper Division Electives **(9 hrs)**

- Select three courses from the following upper level FIL courses:
- DIG 3855 3 hrs Converging Media
 - FIL 3269 3 hrs Cinema Director
 - FIL 3309 3 hrs Women in Film
 - FIL 3410 3 hrs History of Animated Films
 - FIL 3412 3 hrs Black Cinema
 - FIL 3511 3 hrs French New Wave Cinema
 - FIL 3512 3 hrs Italian Neo-Realist Cinema
 - FIL 3513 3 hrs Latin American Cinema
 - FIL 3514 3 hrs International Cinema
 - FIL 3520 3 hrs Italian Film
 - FIL 3521 3 hrs French Film
 - FIL 3522 3 hrs German Film
 - FIL 3542 3 hrs Cinema Criticism (writing)
 - FIL 3625 3 hrs Interactive Entertainment
 - FIL 3XXX 3 hrs American Film Artist

FIL 4XXX 3 hrs Film Theory/Film Production
 FIL 4906 3 hrs Independent Study
 FIL 5609 3 hrs Film and Internet Business
 (a maximum of 6 hours Independent Study may be used)

5. Required Minor **(18 hrs min)**
 Must be taken outside the Film Department.

6. Departmental Exit Requirements

- A student must maintain an overall average of "B" (3.0) or better in major courses.
- Computer competency met by CGS1060 or STA1060C.

7. Foreign Language Requirements **(0-8 hrs)**
Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives **(variable)**
 Select primarily from upper division courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Animation, Art, Creative Writing, Film, Music, Theatre, Radio/TV

Related Minors: Art, Cinema Studies, Creative Writing, Music, Theatre

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Acceptable Substitutes for Common Program Prerequisites

- FIL2400 may substitute FIL 1000, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory course. However, FIL 1007 is a prerequisite for all Cinema Studies courses and must be taken.

FILM - WORLD CINEMA TRACK (B.A.)

College of Arts and Humanities
Film, COMM 121, 407-823-4285

<http://www.film.ucf.edu>
E-mail: film@mail.ucf.edu

Division Head: S. Schlow, 407-823-2845

Admission Requirements **Limited Access**

- The Film-World Cinema track is a limited access program.
- Students must attain an overall minimum 2.5 GPA before applying.
- Students should apply to become Film majors only after completing all requirements for admission to the University.
- A portfolio and an interview are required for entry into the Film World Cinemas track.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of "B" (3.0) or better in courses within the major.
- A maximum of three credit hours on internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.

UCF Degree Programs

- Students should consult with a departmental advisor.
- All students are required to pay a fee for equipment insurance.
- Departmental residency requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
Prefer one course from 1.B.1 list 3 hrs
Prefer FIL 2400 3 hrs
Prefer one course from 1.B.1 or 1.B.2 list 3 hrs
- C. Mathematical Foundations 3 hrs
Prefer MGF 1106
(may substitute a higher level math)
Prefer CGS 1060C *or* STA 1060C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Requirements (3 hrs)

- FIL 2400* History of Motion Pictures 3 hrs
FIL 1007* Foundations of Story 3 hrs
*See Transfer Notes for possible substitutions

3. Core Requirements (57 hrs)

- | | | |
|-----------|---------------------------------|-------|
| DIG 3001 | Digital Media Principles | 3 hrs |
| FIL 1009 | Cinematic Expression for Majors | 3 hrs |
| FIL 2107 | Script Analysis | 3 hrs |
| FIL 2200 | Cinematography I | 3 hrs |
| FIL 2480 | Directing I | 3 hrs |
| FIL 2274C | Editing I | 3 hrs |
| FIL 3124 | Short Script I | 3 hrs |
| FIL 3201C | Introduction to Film Production | 3 hrs |
| FIL 3534 | Sound Design for Film I | 3 hrs |
| FIL 3300C | Film Documentary | 3 hrs |
| FIL 3304C | Documentary Vision | 3 hrs |
| FIL 3307 | Docudrama | 3 hrs |
| FIL 3401 | Film History I | 3 hrs |
| FIL 3503C | Film Theory and Criticism I | 3 hrs |
| FIL 3510 | World Cinema Traditions | 3 hrs |
| FIL 4301C | Documentary Workshop I | 3 hrs |
| FIL 4302C | Documentary Workshop II | 3 hrs |
| FIL 4602 | Film Business | 3 hrs |
| FIL 4607 | Film Production Management | 3 hrs |

4. Upper Level Restricted Electives (9 hrs)

- Select three of the following
- | | | |
|-----------|------------------------------|--|
| FIL 3XXX | Documentary Field Production | |
| FIL 3504C | Film Theory and Criticism II | |
| FIL 3513 | Latin American Cinema | |
| FIL 4564 | Africana Cinema | |
| FIL 4574 | Images & Text in Context | |
| FIL 4604 | The Film Producer | |

Additional courses may be acceptable. Consult your advisor.

5. Capstone (6 hrs)

- | | | |
|-----------|-------------|-------|
| FIL 4203C | Capstone I | 3 hrs |
| FIL 4211C | Capstone II | 3 hrs |

6. Departmental Exit Requirements

- A student must maintain an overall average of "B" (3.0) or better in courses within the major.
- Computer competency met by CGS 1060C or STA 1060C.
- Department of Film requires a passing grade on an exit examination.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (Variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Film, Digital Media, Music, Radio/TV, Theatre.

Related Minors: Cinema Studies, Creative Writing, Digital Media, African American Studies, Women Studies, Latin American Studies, Asian Studies, International and Global Studies

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for Common Program Prerequisites

- FIL 2400 may substitute FIL 1000, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory Film writing course. However FIL 1007 is a prerequisite for all major courses and must be taken

FINANCE (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu/finance>

Admissions Requirements

- Completion of the UCF General Education Program or an AA degree from a Florida public community college
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

- A. Communications Foundations 9hrs
Required: SPC 1600 Fund of Oral Communication
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
Select MAC 1105 College Algebra 3 hrs
Select CGS 2100C Computer Fund for Business 3 hrs
- D. Social Foundations 3 hrs
Select ECO 2013 *or* ECO 2023 3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (18-21 hrs)

- Must be completed with a "C" (2.0) or better.
- | | | |
|-----------|-------------------------------------|-------|
| ACG 2021 | Principles of Financial Accounting | 3 hrs |
| ACG 2071 | Principles of Managerial Accounting | 3 hrs |
| ECO 2013 | Principles of Macroeconomics | 3 hrs |
| ECO 2023 | Principles of Microeconomics | 3 hrs |
| *ECO 3401 | Quantitative Business Tools I | 3 hrs |
| CGS 2100C | Computer Fundamentals for Business | 3 hrs |

*At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)

First or subsequent semester in the College of Business Administration:

- | | | |
|----------|---|-------|
| GEB 3031 | Cornerstone (Required in 1st or 2nd semester) | 4 hrs |
| GEB 3356 | Introduction to International Business | 4 hrs |
| BUL 3130 | Legal & Ethical Environments of Business | 4 hrs |
| ECO 3411 | Quantitative Business Tools II | 4 hrs |
| FIN 3403 | Business Finance | 4 hrs |
| MAN 3025 | Management of Organizations | 4 hrs |
| ISM 3011 | Essentials of Management Information Systems | 4 hrs |
| MAR 3023 | Marketing | 4 hrs |

Last Semester:

- | | | |
|----------|----------------------|-------|
| MAN 4720 | Strategic Management | 4 hrs |
|----------|----------------------|-------|

4. Special College and/or Department Requirements

- Students who change degree programs and select this major must adopt the most current catalog.

- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in finance must apply for admission to the major.
- Final exams will be given during exam week.
- Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- A maximum of 6 hours of required or elective coursework (from sections 5 and 6 below) can count toward another major or minor degree program.
- Students majoring in finance must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. FIN 3403 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses (18 hrs)

FIN 3303	Financial Markets	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 3504	Investment Analysis	3 hrs
FIN 4453	Financial Models	3 hrs

Select two of the following:

FIN 4313	Management of Financial Institutions	3 hrs
FIN 4324	Commercial Bank Management	3 hrs
FIN 4424	Adv Topics in Financial Management	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4533	Financial Derivatives	3 hrs
FIN 4604	International Financial Management	3 hrs

6. Restricted Electives (6 hrs)

Select two of the following:

ACG 3131	Financial Accounting Concepts	3 hrs
ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3361	Intermediate Managerial Accounting	3 hrs
ECO 4412	Economic Statistics and Econometrics	3 hrs
FIN 3470	Financial Statement Analysis	3 hrs
FIN 4313	Management of Financial Institutions	3 hrs
FIN 4324	Commercial Bank Management	3 hrs
FIN 4424	Adv Topics in Financial Management	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4533	Financial Derivatives	3 hrs
FIN 4604	International Financial Management	3 hrs
FIN 4906	Independent Study	3 hrs
FIN 4941	Internship	3 hrs
FIN 4903H**	Honors Directed Readings in Finance	3 hrs
FIN 4970H**	Honors Thesis in Finance	3 hrs
MAR 3391	Professional Selling	3 hrs
REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4103	Real Estate Appraisal	3 hrs
REE 4204	Residential Real Estate Finance	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs
REE 4732	Real Estate Development	3 hrs
RMI 3011	Principles of Risk and Insurance	3 hrs
TAX 4001	Federal Income Tax I	3 hrs

**Must be accepted into the UCF Honors in the Major Program. See <http://www.honors.ucf.edu/> for details.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives* (variable)**

Total Semester Hours Required 120 hrs

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C"(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - FINANCE

Freshman

1st Term	15 hrs	2nd Term	15 hrs
ENC 1101	3	ENC 1102	3
Cult-Hist I	3	Cult-Hist II	3
SPC 1600	3	Art/Music/Lit	3
MAC 1105	3	CGS 2100C	3
Elective***	3	Elective***	3

Must complete nine hours in a summer semester

Sophomore

1st Term	15 hrs	2nd Term	15 hrs
ECO 2013	3	ECO 2023	3
ACG 2021	3	ACG 2071	3
Science	3	Science	3
Psy/Soc/Ant	3	ECO 3401	3
Elective***	3	Elective***	3

Junior

1st Term	16 hrs	2nd Term	17 hrs
GEB 3031	4	FIN 3303	3
GEB 3356	4	FIN 3414	3
MAR 3023	4	FIN 3504	3
FIN 3403	4	ECO 3411	4
		MAN 3025	4

Senior

1st Term	14 hrs	2nd Term	13 hrs
BUL 3130	4	MAN 4720	4
ISM 3011	4	FIN 4453	3
FIN Elective	3	FIN Elective	3
FIN Elective	3	FIN Elective	3

***General electives as required to reach 120 semester hours. The department recommends completing FIN 2104 (Personal Finance) as a general elective, prior to the junior year.

UCF Degree Programs

FOREIGN LANGUAGE EDUCATION - FRENCH (B.S.)

College of Education

Department of Teaching and Learning Principles, ED209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Karen Verkler, ED 220L, 407-823-5235,
E-mail: kverkler@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36 hrs)

- A. Communication Foundation (9 hrs)
1. ENC 1101 English Composition I 3 hrs
 2. ENC 1102 English Composition II 3 hrs
 3. Prefer SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundation (9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
 2. Prefer: PHI 2010 Introduction to Philosophy 3 hrs
 3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs
- C. Mathematical Foundation (6 hrs)
1. Prefer: MGF 1106 Finite Mathematics 3 hrs
 2. Prefer: STA 1060C Basic Statistics using MS Excel *or* STA 2014C Principles of Statistics 3 hrs
- D. Social Foundation (6 hrs)
1. Prefer: POS 2041 American National Government 3 hrs
 2. Prefer: PSY 2012 General Psychology 3 hrs
- E. Science Foundation (6 hrs)
1. Prefer: PSC 1121 Physical Science 3 hrs
 2. Prefer: ANT 2511 The Human Species *or* BSC 1005 Biological Principles 3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

- EDF 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (6 hrs)

- EDF 2130** Child & Adolescent Development for Educators 3 hrs
FRE 2201* Intermediate French Language and Civilization II 3 hrs

*Prerequisite FRE 2200 can be satisfied by FL proficiency test or CLEP test, or successful completion of FRE 2201.

**Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)

- EDG 4410*** Teaching Strategies and Classroom Mgmt 3 hrs
EDF 4467*** Learning Theory and Assessment 3 hrs
TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
RED 4043 Content Reading Kindergarten through Grade 12 3 hrs
EEX 4074# Teaching Exceptional Students in Secondary Settings 3 hrs
EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools 3 hrs

***Required prior to Internship I.

#Community College transfer students may substitute EEX 2010 Introduction to Special Education.

- Passing score on the General Knowledge Test portion of the

Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.

- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

5. Internship I (3 hrs)

ESE 3940 Internship I 3 hrs

- Program Internship I Prerequisites: EDG 4410, EDF 4467, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I with a minimum grade of "C-" or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

6. Specialization Requirements (33 hrs)

- FLE 4333* Foreign Language Teaching in the Sec School 3 hrs
FLE 4314* Foreign Language Teaching in Elem Schools 3 hrs
FRE 3300 French Grammar 3 hrs
FRE 3420 French Composition 3 hrs
FRE 3760 Advanced French Oral Composition 3 hrs
FRW 3100 Survey of French Literature I 3 hrs
FRW 3101 Survey of French Literature II 3 hrs
FRE 4421 Advanced French Conversation 3 hrs
FRE 4422 Advanced French Composition 3 hrs
Upper division restricted electives 6 hrs
(FRE/FRW 3/4XXX with advisor's consent)**

Note: The following courses may be taken in place of FRE 4421 and FRE 4422:

- FRE 3410## Advanced Oral French Abroad
FRE 3423## Advanced French Grammar Abroad

***Required prior to Internship I.

##Community college transfer students may substitute lower division restricted division electives, see advisor.

##May be taken as part of Summer Abroad Program.

7. Other Cognate Requirements (Linguistics) (3 hrs)

FRE 3780 French Phonetics and Diction 3 hrs

- At least 80% of all required foreign language courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. All methods courses and at least 80% of all specialization courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing score on the Subject Area Examination (French K-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.

8. Internship II Block (12 hrs)

ESE 4943 Internship II 11 hrs
ESE 4942 Internship II Secondary Seminar 1 hr

- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Program Semester Hours Required 120 hrs
Consult with your Education advisor and review your degree audit for more recent information.

13. Recommended Four Year Sequence of Courses

Freshman Year

Fall	(12 hrs)	Spring	(12 hrs)
EDF 2005 Intro to Education	3	EDG 2701 Teaching Diverse Pop	3
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
MGF 1106 Finite Mathematics	3	POS 2041 American National Gov	3
PSY 2012 General Psychology	3	PSC 1121 Physical Science	3
Summer	(3 hrs)		
EME 2040 Technology for Educators	3		

Sophomore Year

Fall	(15 hrs)	Spring	(12 hrs)
AMH 2010 U.S. History 1492-1877	3	AMH 2020 US History 1877-present	3
EDF 2130 Child and Adoles Dev Ed*	3	FRE 2201 Intern French Lang Civ II	3
SPC 1600 Fund of Oral Comm	3	ANT 2511 The Human Species or	3
STA 2014C Principles of Statistics or	3	BSC 1005 Biological Principles	
STA 1060C Basic Stat MS Excel		PHI 2010 Intro to Philosophy	3
EEX 4074 Teach Ex Stud in Sec Setgts	3		

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer	(3 hrs)
TSL 4080 Theory & Prac of Teach	3
ESOL Students in Schools	

Junior Year

Fall	(15 hrs)	Spring	(15 hrs)
EDF 4467 Learn Theory & Assmt	3	FRW 3101 Survey of French Lit II	3
EDG 4410 Teach Strat & Class Mgmt	3	FRE 3760 Adv French Oral Comp	3
FRE 3300 French Grammar	3	FRE 3780 French Phonics & Diction	3
FRE 3420 French Composit	3	FRE 4422 Adv French Composit	3
FRW 3100 Survey of French Lit I	3	RED 4043 Content Reading K-12	3
Summer	(9 hrs)		
FLE 4314 For Lang Tch in Elem Sch	3		
FLE 4333 For Lang Tch in Sec Sch	3		
EDF 4603** Anal & Appl of Eth, Legal, & Safe Issues in Schools	3		

**This course may be taken in the Fall of the senior year with consent of Instructor.

Senior Year

Fall	(12 hrs)	Spring	(12 hrs)
ESE 3940 Internship I	3	ESE 4943 Internship II	11
FRE 4421 Adv French Convers	3	ESE 4942 Intern II Sec Seminar	1
Two upper division restricted electives (FRE/FRW 3/4XXX)	6		

FOREIGN LANGUAGE EDUCATION - SPANISH (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Karen Verkler, ED 220L, 407-823-5235, E-mail: kverkler@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST

examination (no alternatives or waivers are accepted).

- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36 hrs)

A. Communication Foundation	(9 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation	(9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877	3 hrs
2. Prefer: PHI 2010 Introduction to Philosophy	3 hrs
3. Prefer: AMH 2020 U.S. History 1877-present	3 hrs
C. Mathematical Foundation	(6 hrs)
1. Prefer: MGF 1106 Finite Mathematics	3 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics	3 hrs
D. Social Foundation	(6 hrs)
1. Prefer: POS 2041 American National Government	3 hrs
2. Prefer: PSY 2012 General Psychology	3 hrs
E. Science Foundation	(6 hrs)
1. Prefer: PSC 1121 Physical Science	3 hrs
2. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles	3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (6 hrs)

EDF 2130**	Child & Adolescent Development for Educators	3 hrs
SPN 2201*	Interm Spanish Language and Civilization II	3 hrs

*SPN 3234 Advanced Directed Readings may be taken in place of SPN 2201 with advisor's consent. Prerequisite SPN 2200 can be satisfied by FL proficiency or CLEP test, or successful completion of SPN 2201 or SPN 3234.

**Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)

EDG 4410***	Teaching Strategies and Classroom Mgmt	3 hrs
EDF 4467***	Learning Theory and Assessment	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL	3 hrs
RED 4043	Content Reading in Kindergarten thru Grade 12	3 hrs
EEX 4074#	Teaching Exceptional Students in Secondary Settings	3 hrs
EDF 4603	Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs

***Required prior to Internship I.

#Community College transfer students may substitute EEX 2010 Introduction to Special Education.

- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

UCF Degree Programs

5. Internship I (3 hrs)
 ESE 3940 Internship I 3 hrs

- Program Internship I Prerequisites: EDG 4410, EDF 4467, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I with a minimum grade of "C-" or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

6. Specialization Requirements (27 hrs)

FLE 4333***	For Lang Tch in the Secondary School	3 hrs
FLE 4314***	For Lang Tch in the Elementary School	3 hrs
SPN 3300	Advanced Spanish Grammar and Composition	3 hrs
SPN 3420	Spanish Composition	3 hrs
SPN 3760	Advanced Spanish Oral Communication	3 hrs
SPW 3100##	Survey of Spanish Literature I	3 hrs
SPW 3101##	Survey of Spanish Literature II	3 hrs
SPN 3344	Advanced Spanish Native Fluency I	3 hrs
SPN 3345	Advanced Spanish Native Fluency II	3 hrs

***Required prior to Internship I

##The following courses may be taken in place of SPW 3100 and SPW 3101:

SPW 3130	Survey of Latin American Literature I
SPW 3131	Survey of Latin American Literature II

7. Upper Division Restricted Electives* (6 hrs)
 Select two upper division Spanish courses (SPN 3/4XXX) 6 hrs with advisor's consent. The following courses are recommended:

SPN 4410	Advanced Spanish Conversation
SPN 4421	Advanced Spanish Composition
SPN 4510	Spanish Civilization and Culture
SPN 4520	Latin American Civilization and Culture
	Any 4000-level Spanish literature course

Community college transfer students may substitute lower division restricted electives.

8. Other Cognate Requirements (3 hrs)
 Select one of the following: 3 hrs

SPN 3852	Bilinguismo <i>or</i>
SPN 4800	Spanish American Syntax <i>or</i>
SPN 4801	Spanish Morphosyntax

- At least 80% of all required foreign language courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing score on the Subject Area Examination (Spanish K-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

9. Internship II Block (12 hrs)
 ESE 4943 Internship II 11 hrs
 ESE 4942 Internship II Secondary Seminar 1 hr

Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

10. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

11. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

12. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

13. Total Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

14. Recommended Four Year Sequence of Courses

Freshman Year

Fall (12 hrs)		Spring (12 hrs)	
EDF 2005 Intro to Education	3	EDG 2701 Teaching Diverse Pop	3
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
MGF 1106 Finite Mathematics	3	POS 2041 American National Gov	3
PSY 2012 General Psychology	3	PSC 1121 Physical Science	3
Summer (3 hrs)			
EME 2040 Technology for Educators	3		

Sophomore Year

Fall (15 hrs)		Spring (12 hrs)	
AMH 2010 U.S. History 1492-1877	3	AMH 2020 US History 1877-present	3
EDF 2130 Child and Adol Dev Ed*	3	SPN 3234 Adv Direct Read	3
SPC 1600 Fund of Oral Comm	3	BSC 1005 Biological Principles <i>or</i>	3
STA 2014C Principles of Statistics <i>or</i>	3	ANT 2511 The Human Species	
STA 1060C Basic Stat MS Excel		PHI 2010 Intro to Philosophy	3
EEX 4074 Teach Ex Stud in Sec Settgs	3		

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer (3 hrs)
 TSL 4080 Theory & Prac of Teach ESOL 3
 Students in Schools

Junior Year

Fall (15 hrs)		Spring (15 hrs)	
EDG 4410 Teach Strat & Class Mgmt	3	EDF 4467 Learn Theory & Assmt	3
SPN 3300 Adv Span Gram & Comp	3	SPN 3345 Adv Span Native Fluenc I/3	
SPN 3344 Adv Span Native Fluency I	3	RED 4043 Content Reading K-12	3
SPN 3420 Spanish Comp	3	SPW 3100 Survey of Span Lit I <i>or</i>	3
SPN 3760 Adv Span Oral Comm	3	SPW 3130 Survey of Latin Am Lit I	
		Upper division restricted elective (SPW 4XXX)	3

Summer (9 hrs)
 FLE 4314 For Lang Tch in Elem Sch 3
 FLE 4333 For Lang Tch in Sec Sch 3
 EDF 4603** Anal & Appl of Eth, Legal, & Safe Issues in Sch 3

**This course may be taken in the Fall of the senior year with consent of Instructor.

Senior Year

Fall (12 hrs)		Spring (12 hrs)	
ESE 3940 Intern I	3	ESE 4943 Internship II	11
Select one		ESE 4942 Intern II Sec Seminar	1
SPN 4410 Adv Span Conversation	3		
SPN 4421 Adv Spanish Comp <i>or</i>			
SPN 4510 Spanish Civil & Cult <i>or</i>			
SPN 4520 Latin Am Civil & Cult			
Select one	3		
SPN 3852 Bilinguismo <i>or</i>			
SPN 4800 Spanish American Syntax <i>or</i>			
SPN 4801 Spanish Morphosyntax			
Select one	3		
SPW 3101 Survey of Latin Am Lit II <i>or</i>			
SPW 3131 Survey of Latin Am Lit II			

FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)**College of Sciences****Department of Chemistry, CH 329, 407-823-6205****<http://www.cos.ucf.edu/chemistry>****E-mail: chemistry@ucf.edu**

Contact: B. Fookes

Admission Requirements**none****Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the program described in categories 4 and 5.
- Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major.
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations

- | | |
|---------------------------------|-------|
| 1. Select ENC 1101 and ENC 1102 | 6 hrs |
| 2. Prefer SPC 1016 | 3 hrs |

B. Cultural and Historical Foundations

- | | |
|--|-------|
| | 9 hrs |
|--|-------|

C. Mathematical Foundations

- | | |
|--------------------|-------|
| 1. Select MAC 2311 | 4 hrs |
| 2. Select STA 2023 | 3 hrs |

D. Social Foundations

- | | |
|--|-------|
| | 6 hrs |
|--|-------|

E. Science Foundations

- | | |
|---------------------------------------|-------|
| 1. Select PHY 2048 & L (PR: MAC 2311) | 4 hrs |
| 2. Select BSC 2010C | 4 hrs |

2. Common Program Prerequisites (16 hrs)

- | | | |
|-------------|-------------------------------|-------|
| BSC 2010C | Biology I | GEP |
| CHM 2045C*+ | Chem Fund I | 4 hrs |
| CHM 2046&L | Chem Fund II with Lab | 4 hrs |
| MAC 2311 | Calculus w/ Anal Geometry I | GEP |
| MAC 2312 | Calculus w/ Anal Geometry II | 4 hrs |
| PHY 2048&L* | Physics Engr. & Sci. I & Lab | GEP |
| PHY 2049&L* | Physics Engr. & Sci. II & Lab | 4 hrs |

*See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core Science and Math Requirements (18 hrs)

- | | | |
|------------|-------------------------------|-------|
| BSC 2010C | Biology I | GEP |
| CHM 2210 | Organic Chem. I | 3 hrs |
| CHM 2211&L | Organic Chem II & lab | 5 hrs |
| CHM 3120&L | Analytical Chemistry & Lab | 4 hrs |
| STA 2023 | Statistical Methods I | GEP |
| PCB 3063 | Genetics | 3 hrs |
| PCB 3233 | Immunology | 3 hrs |
| MAC 2311 | Calculus w/ Anal Geometry I | CPP |
| MAC 2312 | Calculus w/ Anal Geometry II | CPP |
| PHY 2048&L | Physics Engr. & Sci. I & Lab | CPP |
| PHY 2049&L | Physics Engr. & Sci. II & Lab | CPP |

4. Forensic Science Core (18 hrs)

- | | | |
|-----------|--------------------------------|-------|
| CHS 3501 | Intro to Forensic Science | 3 hrs |
| CHS 3505C | Forensic Microscopy | 4 hrs |
| CHS 4537 | Forensic Lab Quality Assurance | 2 hrs |
| CHS 3595 | Foren Sci in the Courtroom | 3 hrs |
| CHS 3533 | Forensic Biochemistry I | 2 hrs |
| CHS 4591 | Forensic Science Internship | 4 hrs |

5. Forensic Analysis Track (27 hrs)**a. Required Courses (15 hrs)**

- | | | |
|-----------|-------------------------------|-------|
| CHM 3422 | Applied Physical Chemistry | 3 hrs |
| CHM 4130 | Advanced Analytical Chemistry | 4 hrs |
| CHS 3511C | Trace Evidence | 4 hrs |

- | | | |
|-----------|-------------------------------|-------|
| CHS 3530C | Foren Anal of Controlled Subs | 4 hrs |
|-----------|-------------------------------|-------|
- b. Select 12 hours from the following: (12 hrs)
- | | | |
|-----------|------------------------------------|-------|
| ANT 4521C | Forensic Anthropology | 3 hrs |
| BCH 4053 | Biochemistry I | 3 hrs |
| CHM 3212L | Organic Lab Techniques II | 2 hrs |
| CHM 4912 | Undergraduate Research | 3 hrs |
| CHS 4506C | Forensic Investigating Techniques | 3 hrs |
| CHS 4515C | Forensic Crime Scene Investigation | 4 hrs |
| CHS 4547C | Advanced Topics in Trace Evidence | 3 hrs |
| PCB 3063L | Genetics Lab | 1 hrs |
| PCB 3233L | Immunology Lab | 1 hrs |

Substitutions require prior approval by the department

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by CHS 3505C and CHS 4537.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements (0-8 hrs)**Admission:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.**Graduation:** none**8. Electives (variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 124 hrs**Related Programs:** Chemistry, Forensic Biochemistry Track**Related Minors:** Chemistry**Transfer Notes:**

- Lower Division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- CHM 2045C*: may use CHM 1040 plus CHM 1041 or CHM 2040C plus CHM 2041C
- MAC 2311* & 2312*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048 & Lab* and 2049 & Lab* : Although CPP requirements permit substitution by Organic Chemistry (CHM 2210 & 2211), PHY 2048 & L, PHY 2049 & L, CHM 245, and CHM 2046 are required for graduation, so all must be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

UCF Degree Programs

Summer	
Chem test See catalog	0
Math test See catalog	0
Freshman Year	
Fall	
BSC 2010C Biology I	4
ENC 1101 Composition I	3
MAC 2311 Calc Anal Geo I	4
CHM 2045C Chemistry Fund I	4
Spring	
PHY 2048 Phy for Eng Sci I	3
PHY 2048L Phy L Eng Sci I	1
CHM 2046 Chemistry Fund II	3
CHM 2046L Chemistry Fund L	1
MAC 2312 Calc Anal Geo II	4
PHY 2049&L*	3
CHS 3501 Intro to For Sci	3
Sophomore Year	
Fall	
MUL 2010* req# 1B2-GEP	3
SPC 1016 Tech Presentations	3
STA 2023 Stat Methods I	3
PHY 2049 Phy for Eng Sci II	3
PHY 2049L Phy L Eng Sci II	1
CHM 2210 Organic Chm I	3
Spring	
EUH 2001* req# 1B1-GEP	3
CHM 2211 Organic Chm II	3
CHM 2211L Organic L Tech I	2
ANT 4521C* req# 5b-RElect	3
ENC 1102 Composition II	3
Junior Year	
Fall	
CHM 3120 Analy Chemistry &L	4
PCB 3063 Genetics	3
PCB 3063L Genetics L	1
CHS 3505C Forensic Mic	4
CHS 4537 For L Qual Assur	2
Spring	
CHM 4912 Elective	3
REL 2300* req# 1B3-GEP	3
CHS 3595 For Sci in the Crt	3
CHM 4130 Adv Analy L Tech	4
BCH 4053* req# 5b-RElect	3
Senior Year	
Fall	
PCB 3233 Immunology	3
PCB 3233L Immunology Lab	1
CHS 3533 Forensic Biochem I	2
CHM 3422 Applied Phy Chm	3
CHS 3530C Forensic analysis	4
Elective* Check restrictions	3
Spring	
POS 2041* req# 1D1-GEP	3
CHS 4515C* req# 5b-RElect	4
PSY 2012* req# 1D2-GEP	3
CHS 3511C Trace Evidence	4
ABC Exam See catalog	0
Summer	
CHS 4591 For Science Intrn	4

FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)

College of Sciences

Department of Chemistry, CH 223, 407-823-0163

<http://www.cos.ucf.edu/chemistry/>

E-mail: chemistry@ucf.edu

Contact: J. Ballantyne

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the program described in categories 4 and 5.
- Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major.
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations	
1. Select ENC 1101 and ENC 1102	6 hrs
2. Prefer SPC 1016	3 hrs
B. Cultural and Historical Foundations	
C. Mathematical Foundations	9 hrs
1. Select MAC 2311	4 hrs
2. Select STA 2023	3 hrs
D. Social Foundations	
	6 hrs

- | | |
|-------------------------------------|-------|
| E. Science Foundations | |
| 1. Select PHY 2048&L (PR: MAC 2311) | 4 hrs |
| 2. Select BSC 2010C | 4 hrs |

2. Common Program Prerequisites (16 hrs)

BSC 2010C	Biology I	GEP
CHM 2045C*+	Chem Fund I	4 hrs
CHM 2046&L	Chem Fund II with Lab	4 hrs
MAC 2311	Calculus w/ Anal Geometry I	GEP
MAC 2312	Calculus w/ Anal Geometry II	4 hrs
PHY 2048&L*	Physics Engr. & Sci. I & Lab	GEP
PHY 2049&L*	Physics Engr. & Sci. II & Lab	4 hrs

*See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core Science and Mathematics Requirements (20 hrs)

BSC 2010C	Biology I	GEP
CHM 2210	Organic Chem. I	3 hrs
CHM 2211&L	Organic Chem. II & lab	5 hrs
CHM 3120&L	Analytical Chemistry & lab	4 hrs
STA 2023	Statistical Methods I	GEP
PCB 3063&L	Genetics & lab	4 hrs
PCB 3233&L	Immunology & lab	4 hrs
MAC 2311	Calculus & Anal Geo I	CPP
MAC 2312	Calculus & Anal Geo II	CPP
PHY 2048&L	Physics Science & Eng I	CPP
PHY 2049&L	Physics Science & Eng II	CPP

4. Forensic Science Core (18 hrs)

CHS 3501	Intro to Forensic Science	3 hrs
CHS 3505C	Forensic Microscopy	4 hrs
CHS 4537	Forensic Lab Quality Assurance	2 hrs
CHS 3595	Foren Sci in the Courtroom	3 hrs
CHS 3533	Forensic Biochemistry I	2 hrs
CHS 4591	Forensic Science Internship	4 hrs

5. Forensic Biochemistry Track (30 hrs)

MCB 3020C	General Microbiology	5 hrs
BCH 4053	Biochemistry I	3 hrs
BCH 4054	Biochemistry II	3 hrs
BCH 4103L	Biochemical Methods Lab	2 hrs
PCB 3522	Molecular Biology I	3 hrs
PCB 4524	Molecular Biology II	3 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
CHS 4534C	Forensic Biochemistry II	3 hrs
CHS 4532	Interpretation of DNA Evidence	3 hrs
CHS 3533L	Forensic Biochemistry Lab	1 hr

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by CHS 3505C and CHS 4537.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP,

- Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 124 hrs

Related Programs: Chemistry, Forensic Science Analysis Track, Molecular Biology and Microbiology

Related Minors: Chemistry, Molecular Biology and Microbiology

Transfer Notes:

- Lower Division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- CHM 2045C*: may use CHM 1040 plus CHM 1041 or CHM 2040C plus CHM 2041C
- MAC 2254*: may use MAC 2311 & 2312
- MAC 2311* & 2312*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
- PHY 2048&Lab* and 2049&Lab* : Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, PHY 2048&L, PHY 2049&L, and Organic Chemistry through CHM 2046 are required for graduation.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Chem Test See catalog	0
Math test See catalog	0

Freshman Year

Fall	Spring		
BSC 2100C Biology I	4 PHY 2048 Phy for Eng Sci I		3
ENC 1101 Composition I	3 PHY 2048L Phy L Eng Sci I		1
MAC 2311 Calc Anal Geo I	4 CHM 2046 Chemistry Fund II		3
CHM 2045C Chemistry Fund I	4 CHM 2046L Chemistry Fund L		1
	MAC 2312 Calc Anal Geo II		4
	CHS 3501 Intro to For Sci		3

Sophomore Year

Fall	Spring		
EUH 2000* req# 1B1-GEP	3 MUL 2010* req# 1B2-GEP		3
SPC 1016 Tech Presentations	3 POS 2041* req# 1D1-GEP		3
STA 2023 Stat Methods I	3 CHM 2211 Organic Chm II		3
PHY 2049 Phy for Eng Sci II	3 CHM 2211L Organic L Tech I		2
PHY 2049L Phy L Eng Sci II	1 MCB 3020C General Micro		5
CHM 2210 Organic Chm I	3		

Junior Year

Fall	Spring		
CHM 3120 Analy Chemistry &L	4 ENC 1102 Composition II		3
PCB 3063 Genetics	3 REL 2300* req# 1B3-GEP		3
PCB 3063L Genetics L	1 CHS 3595 For Sci in the Cr		3
CHS 3505C Forensic Mic	4 CHS 4532 Interp of Evdnc		3
CHS 4537 For L Qual Assur	2 Elective* Check restrictions		2

Senior Year

Fall	Spring		
PCB 3233 Immunology	3 PSY 2012* req# 1D2-GEP		3
PCB 3233L Immunology L	1 BCH 4054 Biochemistry II		3
CHS 3533 Forensic Biochem I	2 BCH 4103L Biochem Methods		2
BCH 4053 Biochemistry I	3 BSC 3403C Quant Bio Methods		4
PCB 3522 Mol Biology I	3 CHS 4534C For Biochem II		3
PCB 4524 Mol Biology II			3
CHS 3533L Foren Bioch Lab			1
Summer			
CHS 4591 For Science Intrn			4

FRENCH (B.A.)

College of Arts and Humanities

Department of Modern Languages & Literatures, CNH 523

<http://www.cas.ucf.edu/forlang>

E-mail: Modernlanguages@ucf.edu

Contact: P. Giordano, 407-823-2472

Admission Requirements

none

Placement in Language courses

Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above.
- At least six of the 36 French credits must be at the 4000 level.
- At least 30 hours must be taken in Modern Language courses taught in French.
- Earn at least a "C" (2.0) in each upper division French course.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major.
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major.
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
 - Prefer STA 1060C Statistics Using Excel
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites

(0-14 hrs)

- FRE 1120* Elem French Lang & Civ I 4 hrs
- FRE 1121* Elem French Lang & Civ II 4 hrs
- FRE 2200* Interm French Lang & Civ I 3 hrs
- FRE 2201* Interm French Lang & Civ II 3 hrs

*May be met by proficiency test or completion of FRE 2201

3. Core requirements

(21 hrs)

- FRE 3300* Advanced Grammar 3 hrs
- FRE 3420* French Composition 3 hrs
- or
- FRE 4422 Advanced French Composition
- FRE 3760* Adv French Oral Communication 3 hrs
- or
- FRE 4421 Advanced French Conversation
- FRW 3100 Survey of French Literature I 3 hrs
- FRW 3101 Survey of French Literature II 3 hrs
- FRE 3780* French Phonetics and Diction 3 hrs
- FOL 3730 Romance Philology 3 hrs

*A native or near-native French speaker must substitute alternate upper division French courses in consultation with a departmental advisor.

4. Upper Division Restricted Electives

(15 hrs)

- French literature beyond the survey level 6 hrs

UCF Degree Programs

(taught in French)
French courses

9 hrs

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division French courses
- Students are required to satisfactorily complete a departmental exit exam
- Students must submit their portfolio to their French Faculty Advisor
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)

Admission: Met by Graduation requirements.
Graduation: Met by Common Program Prerequisites.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Spanish

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

GENERAL BUSINESS (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

E-mail: uss@bus.ucf.edu

Faculty Advisor: Undergraduate Student Services, BA2 101, 407-823-2184

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

- | | |
|--|----------------|
| A. Communication Foundations
Required: SPC 1600 | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations
Select MAC 1105 College Algebra
Select CGS 2100CC Computer Fundamentals for Bus | 3 hrs
3 hrs |
| D. Social Foundations
Select ECO 2013 Macroeconomics <i>or</i>
ECO 2023 Microeconomics
Select one: PSY 2012, SYG 2000, ANT 2000 | 3 hrs
3 hrs |
| E. Science Foundation | 6 hrs |

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a "C" (2.0) or better.

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs
ECO 2013	Macroeconomics	3 hrs
ECO 2023	Microeconomics	3 hrs
*ECO 3401	Quantitative Business Tools I	3 hrs
CGS 2100CC	Computer Fundamentals for Business	3 hrs

*At UCF, students who have completed MAC2233 and STA2023 will be waived from

ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)

First or subsequent semester in the College of Business

Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3356	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011	Essentials of Management Info Sys	4 hrs
MAR 3023	Marketing	4 hrs

Last Semester:

MAN 4720	Strategic Management	4 hrs
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4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB.
- Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied towards the major, and a 2.0 overall average in the major.

5. Second Level Core (5 courses):

Students must take one course from each of the following areas: Economics (must take ECP 4703), Finance, Management, Management Information Systems, and Marketing. These five courses are restricted to the courses listed below:

Finance

FIN 3303	Financial Markets
FIN 3414	Intermediate Corporate Finance
FIN 3504	Investment Analysis

Management

MAN 3301	Management of Human Resources
MAN 4240	Organizations: Theory and Behavior
MAN 4441	Conflict Resolution and Negotiation
GEB 3113	How to Start a Business

Management Information Systems

ISM 3253	MIS Techniques
ISM 4153	Enterprise Information Systems
ISM 4154	Enterprise Application Development

Marketing

MAR 3613	Marketing Research & Analysis
MAR 3403	Sales Force Management
MAR 4841	Service Marketing
MAR 4156	International Marketing

Economics*

ECO 3223	Money and Banking
ECP 3203	Contemporary Labor Economics
ECP 4703	Managerial Economics

*ECP 4703 is required. ECP 3203 and ECO 3223 are restrictive electives only. With permission of Economic advisor, any other 3000 or 4000 level ECO, ECP, or ECS course may be substituted as an Economics restrictive elective. This substitution must be petitioned and have written approval.

6. Restricted Electives (three courses): (9 hrs)

Restricted electives are to be taken from two different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.

8. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C"(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)

Total Semester Hours Required 120 hrs

***General electives as required to reach 120 semester hours.

FOUR YEAR PLAN OF STUDY - ALL GENERAL BUSINESS MAJORS

Freshman		15 hrs	2nd Term	15 hrs
1st Term				
ENC 1101*	3	ENC 1102*	3	
Cult-Hist I*	3	Cult-Hist II*	3	
SPC 1600	3	Art/Music/Lit	3	
***Elective	3	MAC 1105*	3	
**Elective	3	CGS 2100CC*	3	
<i>Must complete nine hours in a summer semester</i>				
Sophomore		15 hrs	2nd Term	15 hrs
1st Term				
ECO 2023*	3	ECO 2013*	3	
ACG 2021*	3	ACG 2071*	3	
Science	3	Science	3	
Psy/Soc/Ant	3	**Elective	3	
**Elective	3	ECO 3401*	3	

*"C" (2.0) or better grade required in each class

Student should choose to major in one of the two areas of study below

GENERAL BUSINESS MAJOR

Junior		16 hrs	2nd Term	15 hrs
1st Term				
GEB 3031	4	Required MAN Course	3	
BUL 3130	4	MAR 3023	4	
ISM 3011	4	ECO 3411	4	
MAN 3025	4	FIN 3403	4	

Senior		16 hrs	2nd Term	13 hrs
1st Term				
GEB 3356	4	MAN 4720	4	
Required FIN Course	3	ECP 4703	3	
Required ISM Course	3	Gen. Bus. Restrictive Elective**	3	
Required MAR Course	3	Gen. Bus. Restrictive Elective**	3	
Gen. Bus. Restrictive Elective**	3			

**Students take 3 restrictive electives from approved list described above

***General electives as required to reach 120 semester hours.

GENERAL BUSINESS (B.S.B.A.)

AS to BS TRACK

Note: For detailed information about this program, see the AS to BS Program section.

HEALTH INFORMATION MANAGEMENT (B.S.)

College of Health and Public Affairs

HPA2 210, 407-823-2353

<http://www.cohpa.ucf.edu/health.pro/>

Undergraduate Program Director: Alice M. Noblin,

E-mail: anoblin@mail.ucf.edu

Admission Requirements

Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division health information management program.

- **Separate Application** to the limited access program must be made directly to the program prior to March 1 of the year admission is sought
- UCF application must also be submitted by the program deadline of March 1st. Acceptance to UCF is necessary before acceptance to the program can occur
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program
- All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of "C" (2.0)

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisites Requirements before transferring within the Florida Public University/ Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program
- UCF Residency Requirement: 31 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2014C	
D. Social Foundations	6 hrs

UCF Degree Programs

E. Science Foundations Select BSC 2010C Select CHM 1032	6 hrs
2. Common Program Prerequisites	(17 hrs)
ZOO 3733C Human Anatomy*	4 hrs
PCB 3703C Human Physiology*	4 hrs
STA 2014C Statistics	GEP
CGS 2100C Computer Science for Business*	3 hrs
ACG 2021 Principles of Financial Accounting	3 hrs
ACG 2071 Principles of Managerial Accounting	3 hrs

*See transfer notes

3. Core Requirements	(68 hrs)
HSC 3157 Introduction to Pharmacology	3 hrs
HSA 3170 Health Care Finance	3 hrs
HSA 4109 Principles of Managed Care	3 hrs
HSA 4191 Health Care Automation	3 hrs
HSA 4702 Health Sciences Research Methods	3 hrs
HSC 3531 Medical Terminology	3 hrs
HSC 3640 Health Law	3 hrs
HSC 4550 Pathophysiologic Mechanisms	3 hrs
MAN 3025 Management of Organizations	3 hrs
or HSA 4180 Organization /Management for Health Agencies	
HIM 3006 Foundations of Health Information Management	3 hrs
HIM 3116C Health Record Organization & Management	4 hrs
HIM 3806L Professional Practice Exp. I	4 hrs
HIM 4816L Professional Practice Exp. II	4 hrs
HIM 4226C Coding Procedures I	5 hrs
HIM 4256C Coding Procedures II	3 hrs
HIM 4676 Professional Development Issues in Health Information Management	3 hrs
HIM 4344C Health Information Department Management	4 hrs
HIM 4506C Quality Management	3 hrs
HIM 4838 Management Affiliation	5 hrs
HIM 4656C Health Information Management Systems	3 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)

A minimum 2.5 overall GPA is required for graduation.

Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements (120 hrs)

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Related Programs: Health Services Administration, Business, Computer Science

Related Minors: Health Services Administration, Business, Computer Science

Transfer Notes:

Community College Equivalents:	
Human Anatomy & Physiology I & II (BSC X085 and X086)	8
Statistics (STA 2014C or any other statistics course)	3
Computer Science for Business (CGS 1060C or any other computer science course)	3

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	14 hrs	Spring	16 hrs
ENC 1101	3	ENC 1102	3
CHM 1032	3	STA 2014C	3
HSC 2000	2	BSC 2010C	4
MAC 1105	3	EUH 2000 or HUM 2210	3
PSY 2012 or SYG 2000	3	or AMH 2010	
or ANT 2000		POS 2041 or ECO 2013	3

*Plan your required nine summer hours into your course of study

Sophomore Year			
Fall	13 hrs	Spring	13 hrs
ACG 2021	4	ACG 2071	3
ZOO 3733C	4	PCB 3703C	4
EUH 2001 or HUM 2230	3	SPC 1600	3
or AMH 2020		One Course: ARH 2050	3
CGS 2100C	3	ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120	

Junior Year			
Fall	15 hrs	Spring	16 hrs
HSA 4191**	3	HIM 4226C	5
HSC 4550**	3	HIM 3116C	4
HIM 3006	3	HIM 3806L	4
MAN 3025** or HSA 4180	3	HSC 3157	3
HSC 3531**	3		
Summer	6 hrs		
HSA 4109	3		
HSC 3640**	3		

Senior Year			
Fall	13 hrs	Spring	13 hrs
HIM 4344C	4	HIM 4676	3
HSA 3170**	3	HIM 4656C	3
HIM 4506C	3	HIM 4816L	4
HIM 4256C	3	HSA 4702**	3
Summer	5 hrs		
HIM 4838	5		

**Note: The asterisked courses may be taken at any time during the two years. The HIM courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.

HEALTH SCIENCES - ATHLETIC TRAINING TRACK (B.S.)

College of Health and Public Affairs

HPA2 210, 407-823-3463

<http://www.cohpa.ucf.edu/health.pro/athletic>

E-mail: kschellh@mail.ucf.edu

Undergraduate Program Director: Kristen C. Schellhase, MEd, ATC, CSCS

Admission Requirements

Students may only begin the athletic training program track in the Summer B semester and must have:

- A. Acceptance to the University as an undergraduate student in Health Sciences - Athletic Training Pending. Acceptance into the university does not constitute admission into the Program in Athletic Training.
- B. A separate application to this competitive restricted access program must be made to the Program in Athletic Training. Acceptance into the university for the summer semester is necessary before acceptance into the Program in Athletic Training can occur.
- C. A minimum of 2.75 overall grade point average and a minimum grade of "C" (2.0) in program prerequisites.
- D. Completion of an AA degree from a Florida Community College; or completion of UCF's General Education Program.
- E. This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this intensity, it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- F. Consent of Program Director.
- G. A minimum of 100 documented clock hours working, volunteering, or shadowing with a licensed certified athletic trainer (ATC)

prior to application. At least 50 of these hours must be obtained within a traditional athletic training setting (high school, college, professional).

Technical Standards Requirement

The Program in Athletic Training at University of Central Florida is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (Commission on Accreditation of Athletic Training Education [CAATE]). The following abilities and expectations must be met by all students admitted to the Program in Athletic Training. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program's technical standards does not guarantee a student's eligibility for the BOC examination.

Candidates for selection to the Program in Athletic Training must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
- Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients;
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
- The ability to record the physical examination results and a treatment plan clearly and accurately;
- The capacity to maintain composure and continue to function well during periods of high stress;
- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
- Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Program in Athletic Training will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. University of Central Florida will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review a whether the accommodations requested are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences and internship deemed essential to graduation. Each candidate must provide a copy of a recent physical examination by a physician.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Admission Foreign Language requirement and the Common Program Prerequisites before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- Accepted students must agree to be available for practicum requirements which may occur during times and days which are

outside of the UCF Academic Calendar; once admitted into the Program in Athletic Training, students must consult the Clinical Education Coordinator and/or Program Director well in advance of any potential scheduling conflicts

- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- UCF Residency Requirement: 30 hours

1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
Select POS 2041	
Select PSY 2012	
E. Science Foundations	6 hrs
BSC 2010C	
CHM 1032	

2. Common Course Prerequisites

(15 hrs)

The following courses are required before entering the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of "C" (2.0) or better.

BSC 2010C	Biology I and Lab	GEP
ZOO 3733C	Human Anatomy	4 hrs
PCB 3703C	Human Physiology	4 hrs
CHM 2045C	Chemistry Fundamentals I	GEP
PHY 2053C	Coll Physics I (algebra based) <i>or</i>	4 hrs
PHY 2048&L	Physics for Scientists I (calculus based)	
HUN 2002	Modern Concepts of Nutrition	3 hrs
STA 2023	Statistical Methods I	GEP
PSY 2012	General Psychology	GEP

3. Professional Phase

(62 hrs)

The following courses are required to complete the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of "C" (2.0) or better.

PET 4603C	Introduction to Athletic Training	3 hrs
PET 3620	Principles of Athletic Training	3 hrs
PET 3633C	Clinical Skills for Athletic Trainers	2 hrs
PET 3670C	Practicum in Athletic Training I	4 hrs
HSC 3157	Introduction to Pharmacology	3 hrs
PET 3623C	Recognition and Evaluation of Athletic Injuries I	3 hrs
PET 4315C	Biomechanics of Sport	3 hrs
PET 3671C	Practicum in Athletic Training II	4 hrs
PET 4624C	Recognition and Evaluation of Athletic Injuries II	3 hrs
HSA 4702	Health Science Research	3 hrs
PET 4630C	Therapeutic Exercise in Athletic Training	4 hrs
PET 4632C	Therapeutic Modalities in Athletic Training	4 hrs
PET 4660C	Organization and Adminstr in Athletic Training	3 hrs
PET 3510C	Physiologic and Metabolic Basis of Human Movement and Performance	3 hrs
PET 4636C	Advanced Rehabilitation in Athletic Training	2 hrs
PET 4672C	Practicum in Athletic Training III	4 hrs
PET 4606	Applied Fitness in Sport	3 hrs
PET 4673C	Practicum in Athletic Training IV	4 hrs
PET 4604	Sports Medicine in Field Application	3 hrs
PET 4674	Senior Seminar	1 hr

4. Upper Division Restricted Electives

none

5. Departmental Exit Requirements

(120 hrs)

Two years of successful clinical rotation under the direct supervision of a certified Athletic Trainer (ATC).

6. Electives

(variable)

Select from upper level courses, with departmental advisors approval. May be outside of the department. Suggested electives relate to health, athletics, science, business, education, administration, and psychology.

7. Foreign Language Requirements

(0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:

none

8. Program Exit Requirements

A minimum overall GPA of 2.75 and a minimum grade of "C" (2.0) in

UCF Degree Programs

prerequisite and major courses are required for graduation from the Program in Athletic Training. The program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Graduates are eligible to apply to take the Board of Certification (BOC) examination. The examination application requirements include criteria related to criminal history and academic disciplinary history. Applicants to the Program in Athletic Training are encouraged to investigate these requirements before beginning the Program in Athletic Training.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Aging Studies Certificate, Business, Public Administration, Sports and Fitness

Related Minors: Business, Computer Sciences, Aging Studies, Biology, Coaching, Fitness Training, Health Information Management, Health Sciences, Health Services Administration and Public Administration. Courses leading to a teaching certificate (education) are also appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

Transfer Notes:

Biology I with Lab (BSC 1010/L)	4 hrs
Human Anatomy and Physiology I & II (BSC X093 and X094 or BSC X085 and X086)	8 hrs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall	15 hrs	Spring	14 hrs
ENC 1101	3	ENC 1102	3
PSY 2012	3	POS 2041	3
HSC 2000	2	BSC 2010C	4
MAC 1105	3	MAC 1114	4
CHM 2045C	4		

Sophomore Year

Fall	14 hrs	Spring	16 hrs
PHY 2053C	4	MUL 2010 or REL 2300 or	3
ZOO 3733C	4	THE 2000 or PHI 2010	
STA 2023	3	HUN 2002	3
EUH 2000 or HUM 2210	3	PCB 3703C	4
or AMH 2010 or WOH 2012		SPC 1600	3
		EUH 2001 or HUM 2230	3
		or AMH 2020 or WOH 2022	

Summer

PET 4603C	3
PET 3620	3
(Foreign Lang I)	4
(Foreign Lang II)	4
if not satisfied in high school	

Junior Year

Fall	12 hrs	Spring	13 hrs
PET 3670C	4	HSA 4702	3
PET 3633C	2	PET 4624C	3
PET 3623C	3	PET 4315	3
HSC 3157	3	PET 3671C	4
Elective **		Elective **	

Summer

PET 4630C	4
PET 4632C	4

Senior Year

Fall	12 hrs	Spring	11 hrs
PET 4660C	3	PET 4674	1
PET 3510C	3	PET 4606	3
PET 4636C	2	PET 4673C	4
PET 4672C	4	PET 4604	3
		Elective**	

**As needed

HEALTH SCIENCES - Pre-Clinical Allied Health Track (B.S.)

College of Health and Public Affairs

HPA2 210M, 407-823-6761

<http://www.cohpa.ucf.edu/health/pro/hsgbs.cfm>

E-mail: dsegal@mail.ucf.edu

Undergraduate Program Director: David M. Segal, PhD

The Health Sciences-Pre-Clinical Allied Health Track is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Admission Requirements:

none

Degree Requirements

- Students should complete the General Education Program and the Common Program Prerequisites requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below)
- No transfer course will be accepted with a grade lower than a "C."
- Students who change degree programs and select this major must adopt the most current catalog
- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty
- Courses in math, biology, chemistry and physics listed are the minimum levels. Students with adequate preparation are encouraged to enroll in higher course levels in the discipline.

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
Select MUL 2010 Enjoyment of Music or REL 2300 World Religions or THE 2000 Theater Survey or PHI 2010 Intro to Philosophy	
C. Mathematical Foundations	6 hrs
Select MAC 1114 Trigonometry	
Select STA 2014C Principles of Statistics or STA 2023 Statistical Methods I	
D. Social Foundations	6 hrs
Select ECO 2013 Principles of Economics I or ECO 2023 Principles of Economics II	
Select PSY 2012 General Psychology	
E. Science Foundations	6 hrs
Select BSC 2010C Biology I	
Select PHY 2053C College Physics I and Lab	

2. Common Program Prerequisites (0 hrs)

MAC 1114	Trigonometry	GEP
STA 2014C	Principles of Statistics or	GEP
STA 2023	Statistical Method I	
BSC 2010C	Biology I	GEP

3. Core Requirements - Lower Division (30 hrs)

CGS 1060C	Intro to Computer Science or	
CGS 2100C	Computer Fundamentals for Business	3 hrs
CHM 2045C	Chemistry Fundamentals I with lab	4 hrs
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2046L	Chemistry Fundamentals II lab	1 hrs
CHM 2205	Introduction to Organic and Biochemistry	3 hrs
DEP 2004	Developmental Psychology	3 hrs
ECO 2023	Microeconomics	GEP
HSC 2000	Intro to the Allied Health Professions	2 hrs
HUN2002	Modern Concepts in Nutrition	3 hrs
MAC 1114	College Trigonometry	GEP
MCB 2004C	Microbiology for Health Professionals	4 hrs
PHY2053C	College Physics I (not for Sci and Eng)	GEP
PHY2054C	College Physics II (not for Sci and Eng)	4 hrs
PSY2012	General Psychology	GEP
STA2014	Principles of Statistics or	

STA2023	Statistical Methods I	GEP
4. Core Requirements - Upper Division (41 hrs)		
Basic and Health Sciences (14 hrs)		
HSC3157	Introduction to Pharmacology	3 hrs
HSC4550	Pathophysiology	3 hrs
PCB 3703	Physiology	4 hrs
ZOO 3733C	Anatomy	4 hrs
Health Services (27 hrs)		
HSA 3111	US Healthcare Systems	3 hrs
HSA 4201	Community Health Services	3 hrs
HSA 4180	Org & Mgt of Health Agencies	3 hrs
HSA 3430	Health Care Economics	3 hrs
HSC 3640	Health Law	3 hrs
HSC 4500	Epidemiology	3 hrs
HSC 4653	Healthcare Ethics	3 hrs
HSA 4702	Health Sciences Research Methods	3 hrs
HIM 4506C	Quality Management	3 hrs

5. Upper Division Restricted Electives:
Choose a minimum of 3 courses from the list below

HSA 3170	Health Care Finance	3 hrs
HSA 3222	Long Term Care Administration	3 hrs
HSA 4109	Managed Care	3 hrs
HSA 4191	Health Care Automation	3 hrs
HSC 3110C	Medical Self Assessment	3 hrs
HSC 3531	Medical Terminology	3 hrs
HSC 4243	Analysis of Instruction	3 hrs
HSC 4564	Healthcare Needs of the Elderly	3 hrs
HSC 3593	HIV Disease	3 hrs
HSC 4008	Professional Development of the Health Prof	3 hrs
PHT 4119C	Clinical Gross Anatomy	4 hrs

6. Unrestricted Electives (variable)

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Program Exit Requirements (120 hrs)

- The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2, 3 and 4 above). An overall 2.0 GPA must be attained for all coursework (see sections 1 - 5).
- Students should note that graduate programs may require a higher level of performance for admission.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: The participating student may also consider applying for consideration to one or more of the following undergraduate professional degree options: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration. The program is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Related Minors: Health Information Management, Health Services Administration.

Transfer Notes: Completion of the Associate of Arts Degree is strongly recommended. Students who transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	14/15 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C <i>or</i>	3	CHM 2046 & 2046L	4
CGS 2100CC		BSC 2010C	4
CHM 2045C	4	PSY 2012	3
MAC 1114	3		
HSC 2000	2		

Sophomore Year			
Fall	15/17 hrs	Spring	15/16 hrs
PHY 2053C	4	MUL 2010 <i>or</i> REL 2300	3
HUN 2002	3	<i>or</i> THE 2000 <i>or</i> PHI 2010	
SPC 1600	3	MCB2004	4
EUH 2000 <i>or</i> HUM	3	CHM 2205	3
2211 <i>or</i> AMH 2010		EUH 2001 <i>or</i> HUM	3
STA 2014C	3	2230 <i>or</i> AMH 2020	
<i>or</i> STA 2023		ECO 2023	3

Summer
Foreign Lang I* *or* other lower level courses 2/4
Foreign Lang II* *or* other lower level courses 3/4
*If not satisfied in high school.

Junior Year			
Fall	14 hrs	Spring	16 hrs
DEP 2004	3	HSA 4180	3
HSA 3111	3	HSC 3640	3
PHY 2054C	4	HSA 4201	3
ZOO 3733C	4	HSC 3157	3
		PCB 3703	4

Senior Year			
Fall	15 hrs	Spring	15 hrs
HSA 4702	3	HSC 4653	3
HSC 4550	3	HSC 4500	3
HSA 3430	3	HIM 4506C	3
Elective (if needed)	3	Elective (if needed)	3
Elective (if needed)	3	Elective (if needed)	3

HEALTH SERVICES ADMINISTRATION (B.S)

College of Health and Public Affairs

HPA2 210, 407-823-2359

<http://www.cohpa.ucf.edu/health/pro/>

Executive Director of HSA Programs: Myron Fottler;

Undergraduate Program Director: Kendall Cortelyou-Ward;

This program is currently available online. Students who choose to take online courses are urged to complete either CGS 2100CC or CGS 1060C prior to enrolling in online-based courses. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see <http://distrib.ucf.edu/home>.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- UCF Residency Requirement: 30 hours

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
Prefer SPC 1600
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
Select MAC 1105
Select CGS 1060C *or* 2100C
- D. Social Foundations 6 hrs
Select ECO 2023
Prefer PSY 2012 *or* SYG 2000
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)

- CGS 2100CC Computer Fund for Business Applications *or* 3 hrs
- CGS1060C Intro to Computer Science
- ECO 2023 Microeconomics GEP

UCF Degree Programs

ACG 2021 Financial Accounting 3 hrs
 ACG 2071 Managerial Accounting 3 hrs
 Students must earn a "C" (2.0) or better in each Common Program Prerequisite course.

3. Core Requirements (48 hrs)

STA 2014C	Statistical Methods	3 hrs
<i>or</i> STA 2023		
HSA 3111	U.S. Health Care Systems	3 hrs
HSA 3170	Health Care Finance	3 hrs
HSA 3222	Long Term Care Administration	3 hrs
HSA 4109	Principles of Managed Care	3 hrs
HSA 4201	Community Health Services	3 hrs
HSA 4180	Organization and Management for Health Agencies	3 hrs
HSA 4191	Health Care Automation	3 hrs
HSA 4502	Risk Management or Quality Management	3 hrs
HIM 4506	Quality Management	3 hrs
HSA 4702	Health Sciences Research Methods	3 hrs
HSC 3531	Medical Terminology	3 hrs
HSC 3640	Health Law	3 hrs
HSC 4500	Epidemiology	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
HSC 4653	Health Care Ethics	3 hrs
HSA 3430	Health Care Economics	3 hrs

Students must earn a "C" (2.0) or better in each Core Requirement course.

4. Upper Division Restricted Electives none

5. Program Exit Requirements (120 hrs)

Students must earn a "C" (2.0) or better in each Health Services Administration elective course.

6. Electives (variable)

Students are encouraged to select with their advisor additional Health Service Administration courses as electives or other courses that will enhance their background in the health care industry. These may be used to build minors and certificates offered by the University. Examples include: Health Sciences, Aging Studies, Public Administration, Criminal Justice, and Business.

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none
 Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Aging Studies Certificate, Public Administration, Health Information Management

Related Minors: Aging Studies, Health Information Management, Health Sciences, Information Systems, and Public Administration. Courses leading to a Certificate in Aging Studies are appropriate.

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	14 hrs	Spring	12 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000	3	PSC 1121 <i>or</i> CHM 1020	3
HSC 2000	2	MUL 2010 <i>or</i> THE 2000	3
MAC 1105	3	<i>or</i> REL 2300 <i>or</i> PHI 2010	
Elective	3	SPC 1600	3
Sophomore Year			
Fall	15 hrs	Spring	15 hrs
ACG 2021	3	ACG 2071	3

ECO 2023	3	STA 2023	3
BSC 1005	3	HSA 3111	3
EUH 2000 <i>or</i> HUM 2210	3	EUH 2001 <i>or</i> HUM 2230	3
<i>or</i> AMH 2010 <i>or</i> WOH 2012		<i>or</i> AMH 2020 <i>or</i> WOH2022	
CGS 2100CC	3	Elective	3

Summer 8 hrs
 Foreign Language I 4
 Foreign Language II 4
 (If not satisfied in high school)

Junior Year			
Fall	15 hrs	Spring	15 hrs
HSA 3222	3	HSA 3170	3
HSC 3531	3	HSA 4180	3
HSA 4201	3	Elective	3
HSA 4191	3	HSC 4500	3
Elective	3	Elective	3

Senior Year			
Fall	15 hrs	Spring	15 hrs
HSA 3430	3	HSC 4564	3
HSC 3640	3	HSA 4109	3
HSC 4653	3	Internship	3
HSA 4502 <i>or</i> HIM 4506C	3	HSA 4702	3
Elective	3	Elective	3

Notes:

Students are urged to have access to a personal computer, modem, and appropriate software to interact with the University and professors.

A variety of internship opportunities are available for HSA majors. An internship is not required but highly recommended.

HISTORY (B.A.)

College of Arts and Humanities

History Department, CNH 551

<http://pegasus.cc.ucf.edu/~history>

E-mail: history@ucf.edu

Contact: TBA, 407-823-2224

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a "C" (2.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department
- Students must compile a portfolio of their written work in history, completed inside and outside the classroom
- Students must complete 36 hours in history
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select AMH 2010 US History: 1492-1877	3 hrs
Select AMH 2020 US History: 1877-Present	3 hrs
Select one class from 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer CGS 1060C Intro to Computer Sci	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (0 hrs)

AMH 2010*	US History: 1492-1877	GEP
AMH 2020*	US History: 1877-Present	GEP

*See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)

HIS 4150	History & Historians	3 hrs
Select one sequence		
EUH 2000, 2001	Western Civilization I & II	6 hrs
WOH 2012, 2022	World Civilization I & II	

4. Upper Division Restricted Electives (21 hrs)

(Must be taken within the History Department)
 Select six hours of approved history courses within three of the four geographic regions.
 1) Asian, African, and Middle Eastern
 2) British and European
 3) Latin American
 4) U.S. and Canadian
 Select three hours of approved history courses 3 hrs

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in upper division required courses attempted
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student's written work including, but not limited to, book critiques, in-class essay exams, and term papers.
- Computer competency met by completion of the major
- Students must complete at least 18 of the required 36 History hours at UCF

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of historical interest.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Humanities

Related Minors: African-American Studies, American Studies, Asian Studies, Humanities, Judaic Studies, Latin American Area Studies, Women's Studies

Transfer Notes:

- Grades below "C" (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring	
AMH 2010 U S His 1492 1877	3 AMH 2020 U S His 1877 Pres	3
BSC 1005* req# 1E2-GEP	3 AST 2002* req# 1E1-GEP	3
ENC 1101 Composition I	3 ENC 1102 Composition II	3
POS 2041* req# 1D1-GEP	3 MGF 1106* req# 1C1-GEP	3
SPC 1600* req# 1A3-GEP	3 SYG 2000* req# 1D2-GEP	3

Sophomore Year

Fall	Spring	
ARH 2050* req# 1B3-GEP	3 EUH 2001* req# 3-Core	3
CGS 1060C Intro to Comp Sci	3 Elective* Check restrictions	3
EUH 2000* req# 3-Core	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3
SPN 1120* req# Lang/Elect	4 SPN 1121* req# Lang/Elect	4

Junior Year

Fall	Spring	
HIS 4150 History & Histrms	3 ASH 3223* req# 4.1-ResEle	3
ASH 3222* req# 4.1-ResEle	3 EUH 3651* req# 4.2-ResEle	3
EUH 3315* req# 4.2-ResEle	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

Senior Year

Fall	Spring	
LAH 3130* req# 4.3-ResEle	3 Req# 4.4-ResEle	3
AMH 3571* req# 4.4-ResEle	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	4
Elective* Check restrictions	3 Portfolio See catalog	0

HISTORY ACCELERATED PROGRAM(B.A. and M.A.)

Accelerated Undergraduate/Graduate Program
Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Program" section of this *Undergraduate Catalog*.

HOSPITALITY MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000

E-mail: hospitality@mail.ucf.edu
<http://www.hospitality.ucf.edu>
 Dean: Abraham Pizam

Degree Requirements

1. UCF General Education Program (GEP)	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100C Computer Fundamentals for Bus or STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics	3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs
2. Common Program Prerequisite	(3 hrs)
HFT 1000 Introduction to Hospitality/Tourism	3 hrs
3. Foundations	
Quantitative Tools	
CGS 2100C Computer Fundamentals of Business	(GEP)
or STA 2023 Statistical Methods I	
ECO 2013 Macroeconomics	(GEP)
or ECO 2023 MicroEconomics	
MAC 1105 College Algebra	(GEP)
4. Hospitality Management Core	(34 hrs)
FSS 2221C Quantity Food Preparation	3 hrs
HFT 3540 Guest Services Management	3 hrs
HFT 2403 Hospitality Financial Accounting	3 hrs
HFT 3431 Hospitality Managerial Accounting	3 hrs
HFT 2500 Hospitality Marketing	3 hrs
HFT 2220 Hospitality Human Resource Mgmt	3 hrs
HFT 3444 Hospitality Information Systems	3 hrs
HFT 3600 Legal Environment in Hospitality	3 hrs
HFT 4295 Leadership and Strg Mgmt in Hospitality Ind	3 hrs
HFT 4286 Hospitality Communications	3 hrs
HFT 4462 Hospitality Industry Finance	3 hrs
HFT 3933 Distinguished Lectures in Hosp Mgmt	1 hr
5. Hospitality Operations Core (Choose 6 of the following 7)	(18 hrs)
HFT 2254 Lodging Operations	3 hrs
HFT 3700 Tourism Management	3 hrs

UCF Degree Programs

HFT 2750	The Event Industry	3 hrs
HFT 3263	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park and Attraction Mgmt	3 hrs
HFT 4277	Yacht, Country, and City Club Mgmt	3 hrs

6. internship		(3 hrs)
HFT 3940	Internship I	1 hr
HFT 4941	Internship II	1 hr
HFT 4944	Internship III	1 hr

7. Special College Requirements:

- Final exams will be given during Final Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

8. Restricted Electives: (15 Hrs)

Generalist Track: Students must take 15 credit hours (five courses) of Hospitality Management courses in the Hospitality Management Specialized Tracks or the restrictive electives in other degree programs (see Restaurant and Food Service Management B.S. and/or Event Management B.S.) offered by the Rosen College. Please note: No more than 2 courses (6 credit hours) may be taken from any one track or degree program at the Rosen College of Hospitality Management to satisfy the restricted elective requirement.

OR

Specialized Tracks: Students must complete one of the six Hospitality Management Specialized Tracks offered by the Rosen College as outlined below to satisfy the restricted elective requirement.

SPECIALIZED TRACKS – Select one of the tracks below

A. Vacation Ownership Resort Management Track – 15 hrs (5 Courses)

HFT 4275	Development of Vacation Ownership Resorts	3 hrs
HFT 4274	Vacation Ownership Resort Management	3 hrs
HFT 4522	Vacation Ownership Resort Sales Tactics and Strategies	3 hrs
HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs

B. Theme Park and Attraction Mgmt Track – 15 hrs (Choose 5 Courses from the following list)

HFT 4786	Managing the Guest Experience in Theme Parks and Attractions	3 hrs
HFT 4759	Product Development in Theme Parks and Attractions	3 hrs
HFT 4758	Contemporary Issues in the Theme Park and Attraction Industry	3 hrs
HFT 4532	Managing the Employee Experience in Theme Parks and Attractions Industry	3 hrs
HFT 4787	Operational Issues in the Theme Park and Attraction Industry	3 hrs
HFT 4795	Entertainment Arts and Events	3 hrs
HFT 3784	Amusement Technology	3 hrs

C. Tourism Management Track – 15 hrs (Choose 5 Courses from the following list)

HFT 4735	Tourism Geography	3 hrs
HFT 4722	Travel Agency Management	3 hrs
HFT 4762	Current Practices in the Airline Industry	3 hrs
HFT 4736	Destination Management	3 hrs
HFT 4561	Destination Marketing	3 hrs
HFT 3770	Cruise Line Operations and Management	3 hrs

D. Lodging Management Track – 15 hrs (5 Courses)

HFT 3313	Hospitality Physical Plant Management	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4253	Hotel Operations	3 hrs
HFT 3515	Reservations Sales & Marketing	3 hrs

E. Hospitality Financial Management and Technology – 15 hrs (5 Courses)

HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs

F. Golf and Club Management Track (Choose 5 Courses from the following list)

HFT 1350	Career and Promotional Development in Golf	3 hrs
HFT 1357	Golf Event Operations	3 hrs
HFT 1356	Concepts and Practices of Golf Assoc.	3 hrs
HFT 2359	Design and Maintenance of Golf Equip	3 hrs
HFT 3353	Golf Planning and Operations I	3 hrs
HFT 3355	Golf Planning and Operations II	3 hrs
HFT 3354	Agronomy for Golf Course Mgmt	3 hrs
HFT 4358	Golf Course Facility Design	3 hrs
HFT 4277	Yacht, Country and City Club Management	3 hrs

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

11. Unrestricted Electives (3-11 hrs)

As necessary to result in 120 total credit hours.

Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF College of Hospitality Management.
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*

*Plan your required nine summer credit hours into your course of study.

Freshman			
Fall	15 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
Cult-Hist I	3	Cult-Hist II	3
CGS 2100C or STA 2023	3	SPC 1600	3
HFT 1000	3	HFT 2500 Hospitality Marketing	3
PSY 2012, SYG 2000 or ANT 2000	3	MAC1105 College Algebra	3

Sophomore			
Fall	15 hrs	Spring	15 hrs
ECO 2013 or ECO 2023	3	Cult/Hist Foundation	3
Science Foundation I	3	Science Foundation II	3
Unrestricted Elective	3	HFT 2403 Hosp Fin Acct	3
HFT 3444 Hosp Info Sys Operations Core	3	HFT 2220 Hosp Hum Res	3
		FSS 2221C Quant Food Prep	3

Junior			
Fall	14 hrs	Spring	16 hrs
HFT 3540 Guest Svcs Mgmt	3	Operations Core	3
HFT 3600 Legal Environ	3	Operations Core	3
HFT 3431 Hosp Mgr Acct Hospitality Elective	3	Operations Core	3
HFT 3940 Internship I	1	Hospitality Elective	3
HFT 3933 Dist Lect in Hosp	1	HFT 4941 Internship II	1
		Sectoral Study Course	3

Senior			
Fall	15 hrs	Spring	15 hrs
HFT 4944 Internship III	1	HFT 4295 Strat Mgt in Hosp	3
HFT 4286 Hospitality Communications	3	Hospitality Elective	3
Hospitality Elective	3	Hospitality Elective	3
Unrestricted Electives	5	Operations Core	3
Operations Core	3	HFT 4462 Hospitality Finance	3

HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. Track

Note: For detailed information about this program, see description in the AS to BS Programs section.

HUMANITIES (B.A.)

College of Arts and Humanities

Philosophy Department, CNH 411

<http://www.cas.ucf.edu/philosophy/>

E-mail: philosophy@ucf.edu

Contact: Bruce Janz, 407-823-2273; Fax: 407-823-6658

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a "C" (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
 - Select HUM 2210 Humanistic Tradition I 3 hrs
 - Select HUM 2230 Humanistic Tradition II 3 hrs
 - Prefer PHI 2010 Intro to Philosophy *or* REL 2300 World Religions 3 hrs
- C. Mathematical Foundations
 - Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - Prefer STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites **none**

3. Core requirements (6 hrs)

- HUM 2210 Humanistic Traditions I GEP
- HUM 2230 Humanistic Traditions II GEP
- HUM 2020 Encountering the Humanities 3 hrs
- HUM 4933 Humanities Senior Research Seminar 3 hrs

4. Concentrations (choose one) (23 hrs)

Note: Appropriate new, or special topics courses in philosophy or humanities may be substituted for some courses with prior approval by department advisor.

A. Classical Humanities:

- 1. Foundations (9 hrs)
- HUM 4301 The Classical Ideal 3 hrs
- Select two courses 6 hrs

- HUM 3431 Ancient Humanities
- HUM 3435 Medieval Humanities
- HUM 3255 Modern Humanities

2. Western Traditions and Applications (9 hrs)

- ARH 4310 Italian Renaissance Art
- ARH 4170 Greek and Roman Art
- HUM 3552 Christian Thought
- HUM 3553 Moses, Jesus, & Mohammed
- CLA 3850 Classical Mythology
- CLA 3851 Comparative Mythology
- JST 3401 The Jewish People I
- REL 3432 Roots of Western Mysticism

Only one of the following may be taken

- PHH 3100 Ancient Philosophy
- PHH 3200 Medieval Philosophy
- PHH 3460 Modern Western Philosophy

3. World Intellectual Traditions: (6 hrs)

- ANT 3245 Native American Religions
- HUM 3401 Asian Humanities
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 3460 Latin American Humanities
- HUM 4303 The Spiritual Ideal

- HUM 4554 Religious Quest and the Human Dilemma
- PHI 3790 African Philosophy

B. Multicultural Humanities

- 1. Foundations (9 hrs)
- HUM 3320 Contemporary Multicultural Studies 3 hrs
- Select one 3 hrs

- HUM 3431 Ancient Humanities
- HUM 3435 Medieval Humanities

- Select one 3 hrs
- HUM 3252 Contemporary Humanities
- HUM 3255 Modern Humanities

2. Traditions and Applications (15 hrs)

- ANT 3311 Indians of the Southeastern US
- ARH 3520 African Art
- HUM 3401 Asian Humanities
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 3553 Moses Jesus and Mohammed
- HUM 3460 Latin American Humanities
- JST 3401 The Jewish People I
- PHH 3701 Native American Philosophy
- PHM 3123 Feminist Theory

C. Critical Humanities

- 1. Foundations (9 hrs)

- HUM 3255 Modern Humanities
- HUM 3252 Contemporary Humanities
- PHI 4804 Critical Theory

2. Traditions and Applications (15 hrs)

- HUM 4330 Performance Theory
- HUM 4554 Religious Quest and the Human Dilemma
- HUM 3930 Representations of Place and Space
- PHH 3510 Marx and Nietzsche
- PHH 3600 Contemporary Philosophy
- PHI 3638 Ethical Issues in the 21st Century
- PHI 4321 Philosophy of Embodiment: Mind/Body/Self
- PHI 3033 Philosophy, Religion, and the Environment
- PHI 3022 Sexuality, Gender, and Philosophy
- PHI 3803 Philosophy and Creativity
- PHM 3123 Feminist Theories
- PHP 3786 Existentialism
- PHP 3783 Modernity as a Philosophical Problem
- PHP 4782 Phenomenology
- REL 3111 Religion and Philosophy through Film
- REL 3115 Religion, Spirituality, and Popular Music
- HUM 3800 Research Methods in Humanities

5. Upper division Restricted Electives (3 hrs)

Select one course from the "Traditions and Applications" category in the concentrations that are not being used to satisfy Core Requirements, or from the following:

- HUM 4303 Spiritual Ideal
- PHI 3700 Philosophy of Religion
- PHI 3800 Aesthetics

or other courses as approved by advisor.

6. Honors in the Major

Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hrs)

Same requirements as for regular majors

Honors Thesis

- HUM 4903H Honors Directed Readings 3 hrs
- HUM 4970H Honors Thesis 3 hrs

Additional Requirements

- Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both HUM 4903H and HUM 4970H
- Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

7. Departmental Exit Requirements

- Earn a "C" (2.0) or better in each required course
- Departmental Exit Exam in final semester.
- Computer Competency met by HUM 4970H, HUM 4933, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

UCF Degree Programs

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Religious Studies, Philosophy, Humanities-Philosophy, Religion, and Popular Culture

Related Minors: Environmental Studies, Humanities, Philosophy, Religious Studies

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall		Spring	
ENC 1101 Composition I	3	ENC 1102 Composition II	3
HUM 2210 Hum Tradition I	3	HUM 2230 Hum Tradition II	3
MGF 1106* req# 1C1-GEP	3	STA 1060C* req# 1C2-GEP	3
REL 2300* req# 1B2-GEP	3	HUM 2020 Encountr the Hum	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

Sophomore Year

Fall		Spring	
ANT 2511* req# 1E2-GEP	3	CHM 1020* req# 1E1-GEP	3
COM 1000* req# 1A3-GEP	3	POS 2041* req# 1D1-GEP	3
PSY 2012* req# 1D2-GEP	3	HUM 3255* req# 4A1-ClasHu	3
HUM 3431* req# 4A1-ClasHu	3	HUM 4301 The Clas Ideal	3
		Elective* Check restrictions	3

Junior Year

Fall		Spring	
ARH 4310* req# 4A2-ClasHu	3	ANT 3245* req# 4A3-ClasHu	3
CLA 3851* req# 4A2-ClasHu	3	HUM 3417* req# 4A3-ClasHu	3
JST 3401* req# 4A2-ClasHu	3	PHI 3800* req# 5-ResEle	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

Senior Year

Fall		Spring	
Elective* Check restrictions	3	HUM 4933 Senior Res Seminar	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	4

HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)

College of Arts and Humanities

Philosophy Department, CNH 411

E-mail: philosophy@ucf.edu

Advisor: Bruce Janz, 407-823-2273; Fax: 407-823-6658;

Advisor (Cocoa): Shelley Park, 321-433-7919

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a "C" (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select HUM 2210 Humanistic Tradition I	3 hrs
Select HUM 2230 Humanistic Tradition II	3 hrs
Select REL 2300 World Religions <i>or</i> PHI 2010 Intro to Phil	3 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics	
(May substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites

none

3. Core requirements

(18 hrs)

a. Core

HUM 2210	Humanistic Traditions I
HUM 2230	Humanistic Traditions II
PHI 2010	Intro to Philosophy

b. Theoretical Foundations

PHI 3684	Ways of Living
PHI 4341	Ways of Knowing

(6 hrs)

c. Philosophy

Select two courses:

PHI 2101	Critical Thinking
PHI 3670	Ethical Theory
PHI 3700	Philosophy of Religion
PHI 3800	Aesthetics
PHM 3100	Freedom and Justice
PHI 3720	Faith and Reason
PHP 3786	Existentialism
PHI 4804	Critical Theory
PHI 4300	Theories of Knowledge

(6 hrs)

d. Religion

Select two courses:

CLA 3851	Comparative Mythology
HUM 3552	Christian Thought
HUM 3553	Moses, Jesus, and Mohammed
HUM 3417	Hindu Thought and Culture
HUM 3419	Islamic Thought and Culture
HUM 4303	The Spiritual Ideal
HUM 4554	Religious Quest and the Human Dilemma
PHI 3750	The Problem of Evil

(6 hrs)

4. Popular Culture Studies

(12 hrs)

a. Contemporary Media

(6 hrs)

Select two courses:

HUM 3320	Contemporary Multicultural Studies
HUM 4556	Religion and the Arts
HUM 4330	Performance Theory
PHI 3625	Virtual Ethics
PHI 4931	Philosophy in the News
POS 3235	Mass Media and Politics
POS 3258	Politics in Film
REL 3115	Religion, Spirituality and Popular Music
REL 3111	Religion and Philosophy through Film
SYP 3630	Sociology of Popular Culture

b. Contemporary Forms of Life (6 hrs)

Select two courses:

ANT 3302	Sex, Gender and Culture
HUM 3252	Contemporary Humanities
PHI 3022	Sex, Gender and Philosophy
PHI 3629	Family Values
PHI 3033	Philosophy, Religion and the Environment
PHM 3401	Philosophy of Law
PHI 3638	Ethical Issues in the 21st Century
PHI 3683	Philosophy of Friendship
PHI 3XXX	Philosophy of Love
PHM 3123	Feminist Theories
PHI 4321	Philosophies of Embodiment: Mind/Body/Self
REL 3131	Religion in America

5. Capstone Course (3 hrs)

HUM 4933	Senior Research Seminar
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6. Honors in the Major (Optional)

Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

a. Core Requirements, Popular Culture and Capstone (33 hrs)

Same requirements as for regular majors

b. Honors Thesis (6 hrs)

HUM 4903H	Honors Directed Readings	3 hrs
HUM 4970H	Honors Thesis	3 hrs

c. Additional Requirements of Honors in the Major

- Application and admission through the Humanities Honors Coordinator
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both HUM 4903H and HUM 4970H
- Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

7. Departmental Exit Requirement

- Departmental Exit Exam in final semester.
- Earn a "C" (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4933, or STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

10. University Minimum Exit Requirements

- 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Humanities or Religious Studies, Philosophy
Related Minors: Humanities, Philosophy, Religious Studies

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**INDUSTRIAL ENGINEERING (B.S.I.E.)
 College of Engineering and Computer Science
 Industrial Engineering & Management Systems (IEMS)
 Department**

ENG2 312, 407-823-2204; Fax: 407-823-3413

<http://www.iems.ucf.edu/>

Contact: TBA

Admission Requirements: none

Degree Requirements

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students (36+2 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs **A.** through **E.** below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations	9 hrs
1. Select ENC 1101 & ENC 1102	
2. Prefer SPC 1016	
B. Cultural and Historical Foundations	9 hrs
1. Select two courses from Historical Foundations	
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, or LIT 2120	
C. Mathematical Foundations	7 hrs
1. Select MAC 2311 (PR: MAC 1114)	
2. Select STA 3032 (PR: MAC 2312)	
D. Social Foundations	6 hrs
1. Prefer ECO 2013 or ECO 2023.	
2. ANT 2000, PSY 2012, or SYG 2000.	
E. Science Foundations	7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)	
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310	

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. A 2.0 cumulative GPA or better is required for those courses in section 2. marked with an asterisk (*). **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440	Fundamentals of Chemistry for Eng* (CHM 2045C/45L will substitute)	4 hr
MAC 2311	Calculus with Analytic Geometry I*	GEP
MAC 2312	Calculus with Analytic Geometry II*	4 hrs
MAC 2313	Calculus with Analytic Geometry III*	4 hrs
MAP 2302	Differential Equations*	3 hrs
PHY 2048/48L	Physics for Engineers & Scientists I*	GEP
PHY 2049/49L	Physics for Engineers & Scientists II*	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities or Social Sciences	GEP

3. Courses Required for the Engineering Core (22 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses for the major listed in 4., the technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do **not** satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1111C	Engineering Computer Graphics	2 hrs
EGN 1007C	Engineering Concepts & Methods	1 hr
COP 3223	Introduction to C Programming	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs

UCF Degree Programs

EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs
or EGN 3343	Thermodynamics	
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engnrng	3 hrs

4. Courses Required for the Major (40 hrs)

The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

EGN 3613	Engineering Economic Analysis	2 hrs
EGN 4624	Engineering Administration	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EIN 3000	Introduction to IE & MS	2 hrs
EIN 3314C	Work Measurement & Design	3 hrs
EIN 3354	Principles of Cost Engineering	3 hrs
ESI 4628C	IE Applications of Computers	3 hrs
EIN 4243C	Human Engineering	3 hrs
EIN 4333C	Industrial Control Systems	3 hrs
EIN 4364C	Industrial Planning & Design	3 hrs
EIN 4391C	Manufacturing Engineering	3 hrs
ESI 4221	Empirical Methods for IE	3 hrs
ESI 4234	Quality Engineering	3 hrs
ESI 4312	Operations Research	3 hrs
ESI 4523C	Systems Simulation	3 hrs

5. Approved Technical Electives (3 hrs)

Technical electives are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)

- EIN 4516C Systems Analysis & Design 3 hrs
- EIN 4891C IE Senior Design Project 3 hrs
- Take the Fundamentals Exam during the Senior year.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

Related Minors: Engineering Leadership

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Industrial Engineering - 128 semester hours required

FIRST YEAR			
Fall	12 hrs ^{1,2}	Spring	12 hrs ^{1,2}
*CHS 1440 Fund of Chm/Engrs	4	*ENC 1102 English Comp II	3
*ENC 1101 English Comp I	3	*MAC 2312 Calc with Analy Geo II	4
*MAC 2311 Calc with Analytic Geol	4	EGN 1007C Eng Conc&Meth	1
EGN 1006C Intro to Eng	1	*PHY 2048/L Phys Engr/Sci I	4

Summer	9 hours¹
COP 3223 Intro to C Programming	3
*SPC 1016 Tech Presentations	3
*ECO 2013 Macroeconomics or	3
ECO 2023 Microeconomics	

SECOND YEAR

Fall	13 hrs¹	Spring	12 hrs¹
*PHY 2049/L Phys Engr/Sci II	4	EGN 3321 Engr Anal-Dynamics	3
EGN 3310 Engr Anal-Statics	3	*MAP 2302 Diff Equations	3
EIN 3000 Intro to IE & Mgt Sys	2	STA 3032 Prob & Stats Engrs	3
*MAC 2313 Calc with Analytic Geo III	4	EGN 3373 Prin of Elec Eng	3

Summer 10 hrs¹

EGN 3365 Strctr & Prop Matls	3
EGN 3613 Engrng Econ Anal	2
*Social Foundations II	3
*EGN 1111C Cmptr Graphics	2

THIRD YEAR

Fall	12 hrs	Spring	15 hrs¹
EIN 3314C Work Meas & Dsgn	3	EIN 4364C Indus Fcty Pln/Dsgn	3
EIN 4391C Mfg. Engr.	3	ESI 4221 Empirical Mthds - IE	3
EIN 3354 Princ of Cost Engrng	3	ESI 4523C Systems Simulation	3
ESI 4312 Operations Research	3	EIN 4243C Human Engrng	3
		EIN 4333C Industrial Cont Sys	3

Summer 9 hrs¹

EGN 4624 Engineering Admin	3
EGN 3358 Therm-Flds-Ht Trans	
or EGN 3343 Thermodynamics	3
*Historical Foundations	3

FOURTH YEAR

Fall	12 hrs	Spring	12 hrs
ESI 4628C IE Computer Appl	3	EIN 4891C IE Sr. Design Proj	3
EIN 4516C Sys Anal & Dsgn	3	Technical Elective	3
ESI 4234 Quality Engineering	3	*Cultural Foundation	3
*Historical Foundation	3	*Science Foundation II	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.

2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 5. Approved Technical Electives.

Accelerated BS/MS Degree Program

The Industrial Engineering & Management Systems Department offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

College of Engineering and Computer Science Engineering Technology (ENT) Department

ENGR 207, 407-823-4748; Fax: 407-823-4746

<http://www.ent.ucf.edu>

Coordinator: Dr. Bahman Motlagh, E-mail: bmotlagh@mail.ucf.edu

Admission Requirements

Students should complete 33 credit hours of lower level technical courses at a community college. Technical courses will be accepted in the following areas: networking, programming, information technology, computer science, and computer engineering and technology or closely related disciplines.

Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
(nine hours completed in AS degree program)
- 1. ENC 1101 & ENC 1102

- 2. Prefer SPC 1016
- B. Cultural and Historical Foundations
(3 hrs taken in AS degree program) 9 hrs
- C. Mathematical Foundations 6 hrs
 - 1. Select MAC 1105
 - 2. Select STA 2023
(completed in AS degree program)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Lower Level Required Courses Taken at Community College (33 hrs)

3. Prerequisite Courses (14 hrs)

- (C or better grade required in all courses)
- | | | |
|-------------|-----------------------------------|-------|
| MAC 1105 | College Algebra and | GEP |
| MAC 1114 | College Trigonometry | 3 hrs |
| or MAC 2147 | Mathematics for Calculus | 5 hrs |
| EET 3085C | Electricity & Electronics | 4 hrs |
| or EET 3086 | Principles of Electrical Circuits | |
| CET 3323C | Digital Technology | 4 hrs |
| CET 2364 | Systems Applications in C | 3 hrs |

4. Required Technical Courses (27 hrs)

- (C or better grade required in all courses)
- | | | |
|----------|--------------------------------|-------|
| CET 3529 | Linux/Unix Sys Admin | 3 hrs |
| CET 3010 | Intro to Info Technology | 3 hrs |
| CET 4427 | Applied Database I | 3 hrs |
| CET 3383 | Applied Systems Analysis I | 3 hrs |
| CET 4505 | Applied Operating Systems I | 3 hrs |
| CET 3752 | Intro to Telephony | 3 hrs |
| CET 4483 | Intro to Local Area Network | 3 hrs |
| CET 4333 | Computer Organization & Design | 3 hrs |
| CET 4748 | Wide Area Networks I | 3 hrs |

5. IST Support Courses (6 hrs)

- | | | |
|----------|------------------------------------|-------|
| ENC 3241 | Writing For Technical professional | 3 hrs |
| ETI 4448 | Applied Proj Mgmt | 3 hrs |
| STA 2023 | Statistical Methods | GEP |

6. Technical Electives (12 hrs)

- (C or better grade required in all courses)
Choose four from the following:
- | | | |
|-----------|------------------------------|-------|
| CET 3198C | Digital Systems | 3 hrs |
| CET 4138C | Digital Programmable Devices | 3 hrs |
| CET 4931 | Current Topics in Technology | 3 hrs |
| CET 4749 | Wide Area Network II | 3 hrs |
| MAP 3401 | Problem Analysis | 3 hrs |
| CET 4523 | Applied Systems Analysis II | 3 hrs |
| CET 4429 | Applied Database II | 3 hrs |
| CET 4583 | Web Base Systems I | 3 hrs |
| CET 4584 | Web Base Systems II | 3 hrs |
| CET 4663 | Computer & Networks Security | 3 hrs |
| STA 5937 | Data Mining I | 3 hrs |
| CET 4884 | Security Meth & Pract | 3 hrs |
| CET 4889 | Sec Sensor & Biomet | 3 hrs |
| CET 4885 | Invest Digital Tech | 3 hrs |

7. Departmental Exit Requirements none

8. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

9. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

10. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the

CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: none

Related Minors: Interdisciplinary Informatics Technology, Secure Computing and Networks

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

Tentative Course Schedule for Transferring Students

The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Freshman Year

Fall	13 hrs	Spring	16 hrs
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 1105 College Algebra	3	MAC 1114 Trigonometry	3
Cultural/Historical Foundation	3	Biological science	3
Lower level elective (CC)	4	Social Foundation	3
		Lower level elective (CC)	4

Sophomore Year

Fall	15 hrs	Spring	16 hrs
SPC 1016 Fund of Technical Pres	3	Cultural/Historical Foundation	3
PSC 1121 Physical Science	3	CET 2364 Syst Applications in C	3
Cultural/Historical Foundation	3	Social Foundation	3
Lower level elective (CC)	3	Lower level elective (CC)	3
Lower level elective (CC)	3	Lower level elective (CC)	4

Summer

6 hrs			
Lower level elective (CC)	3		
Lower level elective (CC)	3		

Junior Year

Fall	16 hrs	Spring	13 hrs
EET 3085C Elect & Electronics	4	CET 3383 Applied Sys Analysis I	3
CET 3010 Intro to Info Tech	3	CET 4427 Appl Database I	3
STA 2023 Statistical Methods	3	CET 3323C Digital Tech	4
Lower level elective (CC)	3	CET 4483 Intro to Local Area Net	3
Lower level elective (CC)	3		

Summer

9 hrs			
CET 4333 Comp Org & Design	3		
ENC 3241 Tech Rept Writing	3		
Upper level elective	3		

Senior Year

Fall	12 hrs	Spring	12 hrs
CET 4505 Appl Oper Sys I	3	CET 3529 Linux/Unix Sys Admin	3
CET 3752 Intro to Telephony	3	ETI 4448 Applied Proj Mgmt	3
CET 4748 Wide Area Networks I	3	Upper level elective	3
Upper level elective	3	Upper level elective	3

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

AS to BS Track

Note: For detailed information about this program, see description in the AS to BS Program section.

UCF Degree Programs

INFORMATION TECHNOLOGY (B.S.)

College of Engineering and Computer Science

School of Electrical Engineering & Computer Science

Harris Corp Engineering Ctr., Rm 246,

407-823-2787; Fax: 407-823-5419

<http://www.eecs.ucf.edu/>

Contact: Dr. Ali Orooji, E-mail: orooji@cs.ucf.edu;

Charlese Hilton-Brown, E-mail: Chilton@mail.ucf.edu

Degree Requirements

- Students must earn at least a "C" (2.0) in each course in 2-5.
- Students should consult with a departmental advisor.
- A Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from the School of Computer Science at UCF.
- 12 of the 24 Residency hours must be at the 4000-5000 level.

1. UCF General Education Program

(36+3 hrs)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| 1. ENC 1101 & ENC 1102 | |
| 2. Prefer SPC 1016 | |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 8 hrs |
| 1. Select MAC 2147 | |
| 2. Select STA 2023 | |
| D. Social Foundations | 6 hrs |
| 1. Select PSY 2012 | |
| 2. Select ECO 2013 | |
| E. Science Foundations | 7 hrs |
| 1. Select PHY 2053C | |
| 2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310 | |

2. Common Program Prerequisites

(12 hrs)

- | | | |
|-----------|-------------------------------------|-------|
| MAC 2147 | Math for Calculus | GEP |
| STA 2023 | Statistical Methods I | GEP |
| ECO 2013 | Macroeconomics | GEP |
| PSY 2012 | General Psychology | GEP |
| PHY 2053C | College Physics I | GEP |
| COP 3223 | C Programming Language | 3 hrs |
| COP 3330 | Object Oriented Programming | 3 hrs |
| CGS 2545C | Database Concepts | 3 hrs |
| MAD 2104 | Foundations of Discrete Mathematics | 3 hrs |

3. Core Requirements

(34 hrs)

- | | | |
|-------------|-------------------------------------|-------|
| COP 3502C | Computer Science I | 3 hrs |
| COP 3503C | Computer Science II | 4 hrs |
| EEL 3041 | Circuit Analysis | 3 hrs |
| EEL 3520 | Information Theory | 3 hrs |
| CGS 3269 | Computer Architecture Concepts | 3 hrs |
| EEL 4882 | Eng. Sys. S/W (Operating Systems) | 3 hrs |
| COP 4610L | OS Laboratory | 3 hrs |
| CGS 3285 | Computer Network Concepts | 3 hrs |
| or CET 4483 | Intro to Local Area Network Tech. | |
| CDA 4506C | Network Laboratory | 3 hrs |
| COP 4910 | Frontiers of Information Technology | 3 hrs |
| PHI 3626 | Ethics in Science and Technology | 3 hrs |

A three credit internship approved by the Information Technology Program Coordinator can substitute for the Frontiers in Information Technology (COP 4910) requirement.

4. Support Courses

(6 hrs)

- | | | |
|----------|--|-------|
| ENC 3241 | Technical Report Writing | 3 hrs |
| CRW 3930 | Creative Writing (section for IT majors) | 3 hrs |

5. Restricted Electives

(15 hrs)

15 hours of upper division courses taken outside of the information technology core requirements. At least nine of these hours must be at or above the 4000 level. The remaining six are at the 3000 level or above. These courses are in areas of the student's choosing. The only restriction is on the level of the courses, not the departments from which they come. However, students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby students can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

6. School Exit Requirements

- Complete an exit interview with an assigned faculty advisor
- Computer competency met by completion of major

7. Free Electives

(0-14 hrs)

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required

120 hrs

Related Programs: Computer Science, Computer Engineering, Management Information Systems

Related Minors and Certificates: Information Technology, Computer Science, Secure Computing and Networks, Interdisciplinary Informatics Technology

Transfer Notes:

- Grades below "C" (2.0) are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

FIRST YEAR

Fall	16 hrs	Spring	15 hrs
ENC 1101 English Comp I	3	ENC 1102 English Comp II	3
SPC 1600 Oral Communications	3	MAD 2104 Found of Discrete Math	3
MAC 2147 Math for Calculus	5	COP 3502C Comp Science I	3
COP 3223 C Programming	3	ECO 2013 Macroeconomics	3
Free Elective	2	PSY 2012 Psychology	3

SECOND YEAR

Fall	16 hrs	Spring	16 hrs
COP 3330 Intro to OO/Java	3	COP 3503C Comp Science II	4
LIT 2110 World Literature I	3	STA 2023 Statistical Methods I	3
PHY 2053C College Physics I	4	CGS 2545C Database Concepts	3
EUH 2000 Western Civil I	3	EUH 2001 Western Civil II	3
Free Elective	3	BSC 1005 Biological Principles	3

THIRD YEAR

Fall	15 hrs	Spring	12 hrs
EEL 4882 Eng Sys S/W	3	CGS 3269 Comp Arch Concepts	3
EEL 3041 Circuit Analysis	3	COP 4610L OS Laboratory	3
ENC 3241 Tech Rept Writing	3	PHI 3626 Adv Ethics in Sci & Tech	3
CET 4483 Intro to LAN Tech	3	Upper division elective	3
or CGS 3285 Comp Network Concepts		Free elective	3
Free elective	3		

FOURTH YEAR

Fall	15 hrs	Spring	15 hrs
EEL 3520 Information Theory	3	COP 4910 Frontiers of IT	3
CDA 4506C Network Laboratory	3	CRW 3930 Creative Writing	3
Upper division elective	3	Upper division elective	3
Upper division elective	3	Upper division elective	3
Free Elective	3	Free elective	3

INTERDISCIPLINARY STUDIES (B.A., B.S.)

Office of Interdisciplinary Studies, CL-I, Room 302,

<http://www.is.ucf.edu>

E-mail: is@mail.ucf.edu

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

Interdisciplinary Studies is a university-wide program leading to either the Bachelor of Arts or the Bachelor of Science in Interdisciplinary Studies, depending on the concentration of work selected in consultation with an Interdisciplinary Studies advisor.

The program is administered through the Office of Interdisciplinary Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses which meet the needs of individual students.

This program may be taken online, however, there are limited area, course, and minor selections available. Advisement is required from

a member of the Interdisciplinary Studies Advising Team. Students may not be able to complete all courses online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via online courses. For more information, see <http://online.ucf.edu/>.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared an Interdisciplinary Studies major at least one semester before graduation
- Co-op credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study or internship for use in the Interdisciplinary Studies areas. Non-approved independent studies or internship will not be counted towards the major
- Students must earn at least a "C" (2.0) in each core and restricted elective course
- Students must consult with an Interdisciplinary Studies advisor to enter the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn an Interdisciplinary Studies degree as a double degree, double major, or second major, must complete all restricted elective credits exclusive of the credits done for the other degree(s) or major(s), including any minors associated with that degree or degrees

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel <i>or</i> STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course)	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites none

3. Core	(6 hrs)
*IDS 3933 Cornerstone Experience in Interdisciplinary Studies	3 hrs
*IDS 4934 Capstone Experience in Interdisciplinary Studies	3 hrs
*Pending availability; see an Interdisciplinary Studies advisor	

4. Restricted Electives **(30 hrs)**

- Students must complete two different subject area concentrations from among those specified below.
- Students must take a minimum of 15 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by an Interdisciplinary Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 15 UCF hours, as well as 15 upper division hours, in the two areas combined.
- See the Interdisciplinary Studies Advising Team for details regarding each area:
 - Arts
 - Behavioral and Social Sciences
 - Commerce
 - Communication
 - Computational Sciences
 - Education
 - Engineering
 - Health
 - Humanities
 - Letters and Modern Languages
 - Physical Sciences
 - Life/Biomedical Sciences
 - Public Affairs

5. Required Minor **(18 hrs minimum)**

Students must complete a minor from those offered at UCF. The minor cannot overlap with the two subject areas. Minimum hours required for a minor is eighteen. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

6. Program Exit Requirements

- A grade of "C" or above (2.0) is required for each course in the core and restricted electives.
- Computer Competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

7. Foreign Language Requirements **(0-8 hrs)**

Admission-BA: Met by graduation requirement

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation-BA: Proficiency equivalent to one year of college instruction in either a foreign language or American Sign Language. Standardized examinations may be used to meet the requirement.

Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

Note: Students entering without having met the admission requirements must do so in order to graduate

8. Electives **(variable)**

Select primarily from upper level courses, with an Interdisciplinary Studies advisor's approval.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Liberal Arts Track in Interdisciplinary Studies, Environmental Studies Track in Interdisciplinary Studies

Related Minors: Most UCF minors

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.

INTERDISCIPLINARY STUDIES – ENVIRONMENTAL STUDIES TRACK (B.S.)

Office of Interdisciplinary Studies

CL-I, Room 302, E-mail: is@mail.ucf.edu

<http://www.is.ucf.edu>

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The Environmental Studies track is a program that prepares students for a number of interesting and challenging careers. Its interdisciplinary nature provides students with tools that can be applied across a spectrum of science, social behavior, and humanities, using the strengths of the various areas. Students seeking journalistic or artistic careers will gain a scientific background by which to understand environmental science, while students going into the sciences will appreciate the social, political, and ethical dimensions of environmental actions and policy decisions.

Admission Requirements

none

Degree Requirements

UCF Degree Programs

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared an Interdisciplinary Studies major at least one semester before graduation
- Independent study forms must be approved by the director prior to taking an independent study or internship for use in the program; non-approved independent studies will not be counted towards the major
- Co op credit cannot be used in this major
- Students must earn at least a "C" (2.0) in each required course in the core and subject areas
- Students should consult with a Interdisciplinary Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Students wishing to earn an Interdisciplinary Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program (36+2 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105 or higher	
Select STA 2023	
D. Social Foundations	6 hrs
Select ECO 2013 or ECO 2023	
Select SYG 2000	
E. Science Foundations	8 hrs
Select BSC 2010C	
Select CHM 2045C	

2. Common Program Prerequisites none

3. Core for Environmental Studies (11 hrs)

A. Physical/Mathematical Sciences		
CHM 2045C	Chemistry Fundamentals I	GEP
MAC 1105	College Algebra or higher	GEP
PSC 1121	Physical Science I	3 hrs
STA 2023	Statistical Methods I	GEP
B. Life Sciences		
BSC 2010C	Biology I	GEP
BSC 2011C	Biology II	4 hrs
PCB 3044 /3044L	Principles of Ecology & Lab	4 hrs
C. Social Science & Humanities		
ECO 2013	Principles of Macroeconomics	
<i>or</i>		
ECO 2023	Principles of Microeconomics	GEP
SYG 2000	General Sociology	GEP

4. Subject Area: Environmental Studies Fundamentals (19 hrs)

IDS 3150	Foundations of Environmental Studies	3 hrs
ECP 3302	Economics and the Environment	3 hrs
GIS 3043C	GIS for Environmental Studies	3 hrs
GIS 4301C	Advanced GIS Applications for Environ. Studies	4 hrs
PUP 3203	Environmental Politics	3 hrs
SYD 4510	Environmental Sociology	3 hrs

5. Subject Areas: Restricted Electives (18 hrs)

Students will complete one of the concentrations listed below. Each concentration requires a minimum of eighteen credit hours. A student completing the Environmental Studies core can reasonably expect to meet entry requirements for most electives listed.

Select 18 hours in one concentration

Sciences Concentration

Note: This subject area is available only to Interdisciplinary Studies - Environmental Studies track majors.

BCH 4053	Biochemistry I
BCH 4054	Biochemistry II
BOT 3152C	Local Flora
BOT 3800	Ethnobotany
BOT 4156C	Florida Wildflowers
BOT 4303C	Plant Kingdom
BOT 4686C	Conservation and Management of Native Plants
BOT 4713C	Plant Taxonomy
BSC 4312C	Marine Biology
CHM 3120	Analytical Chemistry
OCE 3008	Oceanography
PCB 3063	Genetics

PCB 3304C	River Ecology
PCB 3314	Marine Biodiversity
PCB 3442	Florida Aquatic Ecology
PCB 4302C	Physiochemical Limnology
PCB 4303C	Biological Limnology
PCB 4683	Population Biology & Evolution
PCB 4723	Animal Physiology
PCB 5045C	Conservation Biology
PCB 5326C	Ecosystems of Florida

Values, Planning, & Policy Concentration

Note: This subject area is available only to Interdisciplinary Studies - Environmental Studies track majors.

ANT 3541	Biobehavioral Anthropology
BOT 3800	Ethnobotany
ECP 4302	Economics of the Environment
ENC 3211	Theory and Practice of Technical Writing
ENC 3241	Writing for the Technical Professional
ENC 4360	Nature Writing
GIS 4035C	Remote Sensing of Environment
INR 4351	International Environmental Law
PAD 3330	Urban and Regional Planning
PAD 4351	Issues in Environmental Program Management
PHI 3033	Philosophy, Religion, & the Environment
PHI 3640	Environmental Ethics
PHI 4400	Philosophy of Science
PHI 4633	Ethics and Biological Science
PHM 4031	Environmental Philosophy
PLA 4631	Land Use and Environmental Law
PUP 4204	Sustainability
PUP 4209	Urban Environmental Policy

6. Program Exit Requirements (0-8 hrs)

- A grade of "C" or above (2.0) is required for each course taken in the subject areas and core
- Computer Competency is met by completing this major

7. Foreign Language Requirements (0-8 hrs)

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation

Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses, with advisor approval

9. University Minimum Exit Requirements

- A 2.0 UCF and overall GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Required Hours 120 hrs

Related Programs: Biology, Chemistry, Environmental Engineering, Political Science, Economics

Related Minors: All minors

Transfer Notes

- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.

INTERDISCIPLINARY STUDIES - LIBERAL ARTS TRACK (B.A.)

Office of Interdisciplinary Studies
CL-I, Room 302, E-mail: is@mail.ucf.edu
<http://www.is.ucf.edu>

Contact: Interdisciplinary Studies Advising Team, 407-823-0144
 The Liberal Arts Track is a Bachelor of Arts degree program available to advanced students seeking an individualized, interdisciplinary, non-traditional major. Students work closely with program advisors to develop a program that addresses the student's interests and goals working across disciplines. Study in the Liberal Arts is intended to develop a well-prepared individual for a variety of academic and career endeavors. The degree program is administered by the Office of Interdisciplinary Studies.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each restricted elective course
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Interdisciplinary Studies areas. Non-approved independent studies will not be counted towards the major
- Students must consult with an Interdisciplinary Studies advisor before entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Interdisciplinary Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program **(36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
 - Select CGS 1060C Intro to Computer Sci *or*
 - STA 2014C Principles of Statistics *or*
 - STA 1060C Statistics Using Excel (may substitute a higher level computer science or statistics course)
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites **none**

3. Core Requirements **(3 hrs)**

One course determined between the student and Interdisciplinary Studies advisors from among courses in ethics, critical thinking, or methodologies

4. Restricted Electives **(36 hrs)**

- Select one (either A or B):
- a. Complete a minor at UCF that is approved by the Interdisciplinary Studies advisors 18 hrs
 - b. Complete an individualized minor approved by the Interdisciplinary Studies advisors 18 hrs
- and
- Select one (either C or D):
- c. Complete a second minor from those offered at UCF in the College of Arts and Humanities or College of Sciences 18 hrs
 - d. Complete nine hours in each of two concentrations below: 18 hrs
 - 1. Visual and Performing Arts
 - 2. Life/Biomedical, Physical, and Computational Sciences
 - 3. Humanities, Letters and Modern Languages
 - 4. Behavioral, Social Sciences, Communication

5. Program Exit Requirements **(3 hrs)**

Select one of these options, any of which must be approved by the

Interdisciplinary Studies advisors:

- IDS 4906 Directed Independent Research
- IDS 4955 Study Abroad
- IDS 4970 Undergraduate Thesis

- Students must take a minimum of 18 hours of approved restricted elective courses. Courses are considered approved only when they have been reviewed by a Interdisciplinary Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 18 UCF hours, as well as 18 Upper Division hours, in the restricted elective courses.
- Maintain a minimum GPA of 3.0 in all Liberal Arts Track courses

6. Foreign Language Requirements **(0-8 hrs)**

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives **(variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Interdisciplinary Studies Track, Environmental Studies Track

Related Minors: All College of Arts Humanities and College of Sciences minors

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.

INTERDISCIPLINARY STUDIES - NANOSCIENCE & NANOTECHNOLOGY TRACK (B.S.)

Office of Interdisciplinary Studies
CL-I, Room 302, E-mail: is@mail.ucf.edu
<http://www.is.ucf.edu>

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

Interdisciplinary Studies Nanoscience & Nanotechnology track is a university-wide program leading to a Bachelor of Science in Interdisciplinary Studies.

Nanoscience and Nanotechnology is the study of the structure and behavior of materials at the atomic or molecular level. Through an understanding of how to manipulate atoms and molecules, it is possible to create devices and machines with unique properties and diverse applications.

The program is administered through the Office of Interdisciplinary Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared an Interdisciplinary Studies major at least one semester before graduation

UCF Degree Programs

- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Interdisciplinary Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each restricted elective course
- Students should consult with an Interdisciplinary Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - 1. Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - 2. Select STA 1060C Statistics Using Excel *or* STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course) 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs
 - 1. Prefer: PHY 2053C College Physics (prerequisites MAC 1105 and MAC 1114) or equivalent
 - 2. Select one class from the listed choices

2. Common Program Prerequisites none

3. Restrictive Electives (36 hrs)

- Students must complete both subject area concentrations from among those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses).
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
- See the Interdisciplinary Studies Advising Team for details regarding each area

Subject Area #1

- Nanoscience and Nanotechnology Area
 - EMA 3691 Nanomaterials Process Engineering
 - EMA 3014 Nanomaterials Characterization & Application
 - PHZ 3422 Nanophysics
 - BSC 3424 Nanobiotechnology
 - OSE 3490 Nanophotonics
 - PHI 4690 Ethics & Societal Implications in Nanotechnology

Subject Area #2 (one of the following areas)

- Computational Sciences
- Engineering
- Health
- Life/Biomedical Sciences
- Physical Sciences

4. Required Minor (18 hrs min)

The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school's requirements.

Student must complete a minor from those offered below. The minor must not overlap with the area chosen for Subject area #2. (The area designation for each minor is listed in parentheses). The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

- Aerospace Studies (Engineering)
- Computer Science (Computational Sciences)
- Astronomy (Physical Sciences)
- Biology (Life/Biomedical Sciences)
- Chemistry (Physical Sciences)
- Cognitive Science (Interdisciplinary)
- Information Technology (Computational Sciences)
- English-Technical Writing (Letters and Modern Languages)
- Environmental Studies (Interdisciplinary)
- Health Science (Health)
- Mathematics (Computational Sciences)
- Molecular Biology & Microbiology (Life/Biomedical Sciences)
- Physics (Physical Sciences)
- Psychology (Behavioral and Social Sciences)
- Space Studies (Engineering)

Statistics (Computational Sciences)

5. Departmental Exit Requirements

- A grade of "C" or above (2.0) is required for each courses taken in each of the subject areas
- Computer Competency met by completion of track area and minor requirements.

6. Foreign Language Requirement (0-8 hrs)

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation-BS: Proficiency equivalent to one semester of college instruction on a foreign language or one course with a multicultural dimension

Note: Students entering without having met the admission requirements must do so in order to graduate

7. Electives (variable)

Select primarily from upper level courses, with an Interdisciplinary Studies advisor's approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Interdisciplinary Studies Track, Environmental Studies Track

Related Minors: Aerospace Studies, Applied Computer Science, Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Health Science, Mathematics, Molecular Biology and Microbiology, Physics, Psychology, Space Studies, Statistics

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.

INTERDISCIPLINARY STUDIES - WOMEN'S STUDIES TRACK (B.A.)

Office of Interdisciplinary Studies

CL-1, Room 302, E-mail: is@mail.ucf.edu

<http://www.is.ucf.edu>

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

Women's Studies Program

Colbourn Hall 411

<http://www.cah.ucf.edu/womensstudies>

E-mail: womenst@pegasus.cc.ucf.edu

Contact: Lisa Logan, 407-823-6502

Interdisciplinary Studies - Women's Studies track is a broadly based interdisciplinary curriculum which leads to the Bachelor of Arts degree in Interdisciplinary Studies. The program is administered through the Office of Interdisciplinary Studies and the Women's Studies Program in the College of Arts and Humanities.

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared an Interdisciplinary Studies major - Women's Studies track at least one semester before graduation.
- Independent study forms must be approved by the director prior to taking an independent study or internship for use in the

Interdisciplinary Studies areas. Non-approved independent studies will not be counted towards the major.

- Co op credit cannot be used in this track.
- Students must earn at least a “C” (2.0) in each restricted elective course.
- Students should consult with an Interdisciplinary Studies advisor when entering the degree program and regularly thereafter.
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours.
- Students wishing to earn an Interdisciplinary Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36 hrs)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 6 hrs |
| Select MGF 1106 Finite Mathematics (may substitute a higher level math) | |
| Select STA 1060C Statistics Using Excel <i>or</i> STA 2014C Principles of Statistics (may substitute a computer science or higher level statistics course) | |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites none

3. Restricted Electives (36 hrs)

- Students must complete either the Womanist/Women of Color subject area or the Women’s Studies Cognate subject area
- Students must complete one subject area from those specified below
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses)
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined

First Study Area (or select Women’s Studies Cognate Area)

Womanist/Women of Color Area: (18 hrs)

- | | | |
|--|---------------------------------------|----------|
| WST 3460 | Womanist Studies | 3 hrs |
| Select 15 hours from the following courses | | |
| AML 3614 | Topics in African-American Literature | (15 hrs) |
| ANT 4308 | Gender Issues in Latin America | |
| ASH 4304 | Women in China | |
| AML 3682 | Ethnic Literature in America | |
| SYD 3751 | North American Indian Women Today | |
- Other courses approved by the Interdisciplinary Studies Advising Team

Second Study Area (or select Womanist/Women of Color Area)

Women’s Studies Cognate Area: (18 hrs)

- Select 18 hours from the following courses:
- | | |
|-----------|--|
| AML 3614 | Topics in African-American Literature |
| AML 3682 | Ethnic Literature in America |
| AML 4261 | Literature of the South |
| ANT 3212 | Peoples of the World |
| CCJ 4463 | Cultural Diversity in Criminal Justice |
| CCJ 4681 | Domestic Violence and the Justice System |
| EUH 3242 | Modern Europe and the First World War |
| EUH 5937* | Social Theory/History* |
| HSC 3593 | CHIV Disease: A Human Concern |
| LIT 5556 | Feminist Theory* |
| LIN 4643 | Cross Cultural Communication |
| PEM 2405 | Self-Defense for Women and Men |
| PHI 3640 | Environmental Ethics |
| PHI 3670 | Ethical Theory |
| PHI 4300 | Theories of Knowledge |
| PUP 3314 | Minorities in Politics |
| SOP 2772 | Sexual Behavior |
| SOP 3784 | Psychology of Diversity |
| SYD 3700 | Race and Ethnic Minorities in the U.S. |
| SYO 4100 | Family Trends |
| SYO 4200 | Sociology of Religion |
| SYP 3630 | Sociology of Popular Culture |
| SYP 3650 | Sociology and Sport |
| SYP 4732 | Minority Aging |
| THE 3230 | Cultural Diversity Through Theater |

Other courses may be utilized for this area with the permission of the director.

*Undergraduate students will need professor’s permission to register for graduate-level courses.

Relevant Special Topics courses are periodically offered through various depart-

ments; with prior approval from the Women’s Studies Director, some courses may substitute.

2nd Study Area (from those below)

See the Interdisciplinary Studies Advising Teams for details regarding each area:

- Arts
- Behavioral and Social Sciences
- Commerce
- Communication
- Computational Sciences
- Education
- Engineering
- Health
- Humanities
- Letters and Modern Languages
- Life/Biomedical
- Physical Sciences
- Public Affairs

4. Required Minor (18 hrs)

Students must complete the Women’s Studies minor

5. Program Exit Requirements

- A grade of “C” or above (2.0) is required for each course taken in each of the subject areas
- Computer Competency is met by CGS 1060C, STA 1060C, or departmental assessment

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in either a foreign language or American Sign Language. Standardized examinations may be used to meet the requirement.

Note: Students entering without having met the admission requirement must do so in order to graduate

7. Electives (variable)

Select primarily from upper level courses, with Interdisciplinary

Studies advisor’s approval. May be outside of Women’s Studies.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Interdisciplinary Studies - Interdisciplinary Studies track; Interdisciplinary Studies - Liberal Arts track

Related Minors: Anthropology in Multicultural Studies

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.

UCF Degree Programs

INTERPERSONAL/ORGANIZATIONAL COMMUNICATION (B.A.)

College of Sciences

Nicholson School of Communication

COM 238, 407-823-2681

E-mail: communication@ucf.edu

<http://communication.cos.ucf.edu/io>

Contact: Jeff Butler

Admission Requirements

none

Degree Requirements

- Students who change degree programs (other than from I/O Pending) and select this major must adopt the most current catalog.
- Co-op or internship credit can be used in this major with prior advisor approval
- Students cannot exceed a total of six credits of internship, Co-op, and independent study credits combined.
- Students should consult with a departmental advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Communication
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

- A. Communication Foundations
Select ENC 1101 & ENC 1102
Select SPC 1600 6 hrs
3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
Prefer MGF 1106 (may substitute a higher level math)
Select STA 1060C or STA 2014C 3 hrs
3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (0 hrs)

- SPC 1600 Fund of Oral Communication GEP

3. Core Requirements (15 hrs)

- a. Select one course GEP
STA 1060C Basic Statistics Using Excel
STA 2014C Principles of Statistics
- b. Complete the following
COM 3011C Communication & Human Relations 3 hrs
COM 3120 Organizational Communication 3 hrs
COM 3311 Communication Research Methods 3 hrs
SPC 3301 Interpersonal Communication 3 hrs
- c. Select one course 3 hrs
CGS 2100CC Computer Fundamentals for Business
CGS 2585C Desktop/Internet Publishing (PR: CGS 1060C)
CGS 3175 Internet Applications (PR: CGS 1060C)

4. Restricted Electives (21 hrs)

- Select from the following list:
- COM 3013 Communication and the Family
COM 3110 Business and Professional Communication
COM 4014 Gender Issues in Communication
COM 4461 Intercultural Communication
COM 4462 Conflict Management
SPC 3513 Argumentation and Debate
SPC 4331 Nonverbal Communication
SPC 4426 Group Dynamics
SPC 4540 Attitudes and Communication
- A maximum of 6 credits of any combination of the following can be used
COM 4941 Internship
COM X949 Coop
SPC X949 Coop
COM 4906 Directed Independent Study
- A maximum of 3 credits of the following can be used
ENC 3250 Professional Writing
ENC 3311 Adv Expository Writing
ENC 3241 Writing for the Tech Professional

5. External Restricted Electives (6 hrs)

A minimum of six upper division credit hours selected from courses in Anthropology, Business, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

6. School Exit Requirements

- Achieve a "C" (2.0) or better average GPA in Nicholson School courses
- To avoid graduation delays, meet with your advisor to review graduation requirements before registering for your last term
- Computer Competency met by achieving a "C" (2.0) or better in CGS 2100CC, CGS 2585C, CGS 3175, or by departmental assessment
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses. May be taken outside of the School of Communication.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required

120 hrs

Related Minors: Mass Communication, Interpersonal Communication, Organizational Communication.

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring
ENC 1101 Composition I	3 ENC 1102 Composition II
MGF 1106* req# 1C1-GEP	3 EUH 2000* req# 1B1-GEP
Elective* Check restrictions	4 STA 2014C Prin of Statistics
SPN 1120* req# Lang/Elect	4 Elective* Check restrictions
	SPN 1121* req# Lang/Elect

Sophomore Year

Fall	Spring
ANT 2000* req# 1D2-GEP	3 ARH 2050* req# 1B3-GEP
BSC 1005* req# 1E2-GEP	3 POS 2041* req# 1D1-GEP
MUL 2010* req# 1-GEP	3 PSC 1121* req# 1E1-GEP
SPC 1600 Fund of Oral Com	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

Junior Year

Fall	Spring
COM 3011C Com Reltn	3 COM 3013* req# 4-ResElec
COM 3311 Com Res Methods	3 COM 3110* req# 4-ResElec
PUR 4110C* req# 3-Core	3 COM 4014* req# 4-ResElec
ENC 3250* req# 4-ResElec	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

Senior Year

Fall	Spring
COM 3120 Org Communication	3 COM 4462* req# 4-ResElec
SPC 3301 Intpers Com	3 COM 4941* req# 4-ResElec
COM 4461* req# 4-ResElec	3 MAR 3023* req# 5-Ext RE
PUP 3325* req# 5-Ext RE	3 Elective* Check restrictions
Elective* Check restrictions	3 Elective* Check restrictions

JOURNALISM (B.A.)

College of Sciences

Nicholson School of Communication

COM 244, 407-823-2839

<http://communication.cos.ucf.edu/journ>

E-mail: journalism@ucf.edu

Contact: Fred Fedler

Admission Requirements Limited Access

- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
 October 1 to be admitted the next Spring term
 February 1 to be admitted the next Summer term
 July 1 to be admitted the next Fall term
- Admission is based on multiple factors, not strictly GPA.
- Attain an overall minimum 2.25 GPA based on a minimum of 30 credit hours of college work. NOTE: Meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis.
- Meet a grammar proficiency standard. Students with an "A-" or better in both ENC 1101 and ENC 1102 have satisfied the requirement. All others must pass a grammar proficiency exam administered by UCF's Counseling and Testing Center.
- Have acceptable keyboard skills.
- Submit a letter demonstrating commitment to the field.

Degree Requirements

- Students who change degree programs (other than from Journalism Pending) and select this major must adopt the most current catalog.
- The Journalism faculty strongly recommends that majors work for a student newspaper.
- Journalism majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine.
- To receive credit for an internship, students must have a 2.5 GPA in their required major courses. Students with less than a 2.5 GPA will not be given academic internship credit.
- Students can enroll in a maximum of three 2-credit internship. However, the internship must be with different employers. Each internship must be approved by and supervised by a Journalism faculty advisor.
- Students cannot exceed a total of seven credits of internship, Co-op, and practicum credits combined.
- A portfolio of representative work must be submitted to, and approved by, a faculty committee at least one semester before graduation. At least 75% of the work must be produced while at UCF.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a school advisor.
- School Residency Requirement consists of at least 24 semester hours including JOU 2100C and regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.
- All students are required to pay a fee for equipment insurance.
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 (or 43 if a GEP speech class was taken at UCF) of the 120 hours may be taken within the Nicholson School of Communication
- Journalism majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations
 - Select ENC 1101 & ENC 1102 6 hrs
 - Select SPC 1600 *or* SPC 1016 3 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MGF 1106 (may substitute a higher level math) 3 hrs
 - prefer CGS 1060C *or* STA 2014C 3 hrs
- D. Social Foundations 6 hrs

E. Science Foundations 6 hrs

2. Common Program Prerequisites: (0 hrs)

- Select one course
- SPC 1016 Fund of Technical Presentations *or*
 - SPC 1600 Fund Oral Communication

3. Common Core requirements (15 hrs)

- JOU 2100C** News Reporting 3 hrs
- JOU 3201* Editing I 3 hrs
- MMC 3200 Mass Communication Law 3 hrs
- JOU 4700 Journalism Ethics 3 hrs
- JOU 4342C Converged Journalism 3 hrs

*Grammar Proficiency must be Satisfied.
 **Must earn at least a "C" (2.0) to enroll in subsequent courses

4. Specialization: Select one area (17-18 hrs)

4.1 Newswriting (17-18 hrs)

- a. Required courses
- JOU 3184C* Metro Reporting 3 hrs
 - JOU 3101 Advanced Reporting 3 hrs
 - JOU 4181 Public Affairs Reporting 3 hrs

*Must earn at least a "C" (2.0) to enroll in subsequent courses

b. Directed Electives (Select from the following) 8-9 hrs

- MMC 2004 Mass Media
- JOU 3004 History of American Journalism
- PGY 3610C Photojournalism I
- JOU 3202 Editing II
- JOU 3313C Sports Reporting
- JOU 4224 Magazine Editing and Production
- JOU 4300 Feature Writing

Any other JOU prefix writing elective, or one 2 credit JOU internship

4.2 Visual Communication (17-18 hrs)

- a. Required courses
- VIC 3001 Visual Communication 3 hrs
 - JOU 4213C Page Design 3 hrs
 - JOU 4211C Informational Graphics 3 hrs
 - PGY 3610C Photojournalism I 3 hrs

b. Directed Electives (5-6 hrs)

- Select two courses from the following
- MMC 2004 Mass Media
 - JOU 3004 History of American Journalism
 - JOU 4340C On-line Journalism
 - PGY 3620C Photojournalism II
 - PGY 3630 Photojournalism III
 - CGS 2585C Desktop/Internet Publishing
 - JOU 3930 *or* JOU 4941 Internship

(2 credits maximum)

4.3 Editing (17-18 hrs)

- a. Required courses
- JOU 3202 Editing II 3 hrs
 - JOU 4213C Page Design 3 hrs
 - JOU 3101 Advanced Reporting 3 hrs
 - JOU 4211C Informational Graphics 3 hrs

b. Directed Electives (Select from the following) 5-6 hrs

- MMC 2004 Mass Media
- PGY 3610C Photojournalism I
- JOU 3004 History of American Journalism
- JOU 4224 Magazine Editing and Production
- VIC 3001 Visual Communication

Any other JOU prefix writing elective, or one 2 credit JOU internship

Minor: (18 hrs min)

Journalism majors must complete an 18 hour minor in an academic area outside of the School of Communication. When no official minor is offered, students may complete an 18-credit-hour area concentration approved by the Faculty.

6. School Exit Requirements

- Acceptance of portfolio by faculty
- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Achieve an overall "C" GPA (2.0) in courses taken within the school used to satisfy the major.
- Computer Competency met by CGS 1060C or by departmental assessment.
- Before applying to graduate, the CLAST must be completely satisfied.

UCF Degree Programs

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, credit by exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Technical Writing, Creative Writing

Related Minors: Creative Writing, History, Literature, Linguistics, Magazine Journalism (not available to Journalism majors), Political Science, Sociology, Technical Writing, Writing

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

LEGAL STUDIES (B.A., B.S.)

College of Health and Public Affairs

HPA1 311, 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

Undergraduate Program Director and Pre-Law Advisor: David Slaughter, E-mail: dslaught@mail.ucf.edu

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- 33 hours of PLA coursework must be taken at UCF
- 2.0 in all PLA work at UCF and overall

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
 - 1. ENC 1101 & ENC 1102
 - 2. Prefer SPC 1600
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core Requirements (21 hrs)

- PLA 3013 Law and the Legal System 3 hrs
- PLA 3104 Legal Research 3 hrs
- PLA 3155 Legal Writing 3 hrs
- PLA 3201 Civil Practice and Procedure 3 hrs
- PLA 3610 Property and Real Estate Law 3 hrs
- PLA 4700 Professional Ethics and Liability 3 hrs
- PLA 4935 Capstone: Legal Issues 3 hrs

Note: All core requirements must be completed with a minimum grade of "C" (2.0) to satisfy the major.

4. Upper Division Restricted Electives (21 hrs)

21 additional hours of Legal Studies coursework selected in consultation with an advisor

5. Supporting Courses (9-15 hrs)

Students pursuing the B.A. degree must complete nine semester hours of supporting courses chosen with the approval of the student's advisor. Students pursuing the B.S. degree must complete 15 hours of supporting courses chosen with the approval of the student's advisor.

6. Specializations

Students may earn a specialization within the general program of study. The specializations do not substitute for the general legal studies degree requirements; they are earned within the general program by selecting particular courses to satisfy the legal studies restricted electives and supporting courses requirements. Students are not required to declare a specialization. The following specializations are offered:

- Law and Society
- Litigation and Advocacy
- Public Law
- Sports and Entertainment Law
- Criminal Law and Individual Liberties
- Estates and Property Law
- Comparative and International Law
- Commercial and Transactional Law

A student may earn a maximum of two specializations. Specific course requirements are available at the department office or from the student's advisor.

7. Departmental Exit Requirements (120 hrs)

Students must take a minimum of 33 hours of PLA courses at UCF. The total semester hours required is 120.

8. Electives (variable)

The following electives must be completed with a minimum grade of "C" (2.0): PLA 4020, PLA 4240, PLA 4910

9. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Business Administration, Criminal Justice, History, Political Science, Public Administration, Sociology

Related Minors: Business Administration, Criminal Justice, Political Science, Public Administration, Sociology

Transfer Note:

Courses taken at community colleges do not substitute for Upper Division courses.

Minor

The Legal Studies Minor consists of 21 or more semester hours. Required courses: PLA 3013 plus a minimum of 15 semester hours of legal studies courses and three semester hours of law-related courses selected with the aid of an advisor.

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	14 hrs	Spring	15/16 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 <i>or</i> SYG 2000	3	CGS 1060C	3
MGF 1106	3	ECO 2013 <i>or</i> POS 2041	3
BSC 1005 <i>or</i> MCB 1310	3	<i>or</i> ECO 2023	
PAF 2102	2	For. Lang. I or B.S. option	3/4
		Elective	3
Sophomore Year			
Fall	15/16 hrs	Spring	15 hrs
ANT 2511 <i>or</i> GLY 1030	3	PSC 1121 <i>or</i> CHM 1020	3
<i>or</i> GEO 1200		PLA 3013	3
SPC 1600	3	One Course: ARH 2050	3
EUH 2000 <i>or</i> HUM 2210	3	ARH 2051, MUL 2010, THE	
<i>or</i> AMH 2010		1020, REL 2300, PHI 2010,	
For. Lang. II <i>or</i> B.S. option	3/4	LIT 2110, LIT 2120	
Elective	3	EUH 2001 <i>or</i> HUM 2230	3
		<i>or</i> AMH 2020	
		Elective	3
Junior Year			
Fall	15 hrs	Spring	15 hrs
PLA 3104	3	PLA 3155	3
PLA 3201	3	PLA 3610	3
PLA Elective	3	PLA Elective	3
PLA Elective	3	PLA Elective	3
Supporting Elective	3	Supporting Elective	3
Senior Year			
Fall	15 hrs	Spring	15 hrs
PLA 4700	3	PLA 4935	3
Internship <i>or</i> PLA Elective	3	Internship <i>or</i> PLA Elective	3
Supporting Elective	3	PLA Elective	3
Elective/minor	3	Elective/minor	3
Elective/minor	3	Elective	3

LIBERAL STUDIES

Note: See Interdisciplinary Studies.

MANAGEMENT (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

1. Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
Required: SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100CC Computer Fundamentals for Bus	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics <i>or</i>	3 hrs
ECO 2023 Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites **(18-21 hrs)**

Must be completed with a "C" (2.0) or better.

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs
ECO 2013	Macroeconomics	3 hrs
ECO 2023	Microeconomics	3 hrs
*ECO 3401	Quantitative Business Tools I	3 hrs
CGS 2100CC	Computer Fundamentals for Business	3 hrs

*At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors **(36 hrs)**

Common Body of Knowledge

First or subsequent semester in the College of Business Administration:	
GEB 3031	Cornerstone (Required in 1st or 2nd semester) 4 hrs

GEB 3356	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011	Essentials of Management Information Systems	4 hrs
MAR 3023	Marketing	4 hrs
Last Semester:		
MAN 4720	Strategic Management	4 hrs

4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
- Students wanting to major in Management must apply for admission to the major
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must earn at least a 2.0 GPA in the major and COB.
- Students majoring in Management must earn a grade of "C" (2.0) or better in MAN 3025, MAN 4720, and each course applied toward the major.

5. Tracks

Within the Management major, students can concentrate in 3 areas of study. Courses for each are outlined below:

■ Human Resource Management Track **(24 hrs)**

Required Courses		(15 hrs)
MAN 3301	Human Resource Management	3 hrs
MAN 4240	Organizational Theory and Behavior	3 hrs
MAN 4320	Recruitment and Selection	3 hrs
MAN 4330	Compensation Administration	3 hrs
MAN 4350	Training and Development	3 hrs
Elective Courses		(9 hrs)
(Choose among MAN courses, BUL 4540, GEB 4111, and GEB 4117)		
MAN Elective		3 hrs
MAN Elective		3 hrs
MAN Elective		3 hrs

■ General Management Track **(24 hrs)**

Required Courses		(15 hrs)
ISM 3530	Quality & Productivity Management	3 hrs
MAN 4101	Human Relations in Management	3 hrs
MAN 4240	Organizational Theory & Behavior	3 hrs
MAN 4600	International Management	3 hrs
MAN 4701	Business Ethics and Society	3 hrs
Elective Courses		(9 hrs)
(Choose among MAN courses, BUL 4540, GEB 4111, and GEB 4117)		
MAN Elective		3 hrs
MAN Elective		3 hrs
MAN Elective		3 hrs

■ Management Track: Entrepreneurship **(24 hrs)**

Required Courses		(15 hrs)
MAN 3301	Human Resources Management	3 hrs
MAN 4802	Entrepreneurship	3 hrs
GEB 4117	Business Plan Preparation	3 hrs
GEB 4111	New Venture Finance <i>or</i>	
FIN 3470	Small Business Finance	3 hrs
MAR 3641	Market Intelligence <i>or</i>	
MAR 3391	Professional Selling	3 hrs

Elective Courses (chose among MAN courses and BUL 4540) **9 hrs**

MAN Elective		3 hrs
MAN Elective		3 hrs
MAN Elective/ BUL 4540 Employment Law		3 hrs

6. Foreign Language Requirements **(0-8 hrs)**

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award

UCF Degree Programs

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives*** (variable)

Total Semester Hours Required 120 hrs

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C"(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100CC*	3

Must complete nine hours in a summer semester

Sophomore			
1st Term	15 hrs	2nd Term	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3

**"C" (2.0) or better grade required in each class*

Student should choose to major in one of the two areas of study below

GENERAL MANAGEMENT TRACK

Junior			
1st Term	15 hrs	2nd Term	16 hrs
GEB 3031	4	ISM 3011	4
BUL 3130	4	MAR 3023	4
ISM 3530	3	ECO 3411	4
MAN 3025	4	FIN 3403	4

Senior			
1st Term	16 hrs	2nd Term	16 hrs
GEB 3356	4	MAN 4720	4
MAN 4240	3	MAN 4600	3
MAN 4701	3	MAN 4101	3
**MAN Elective	3	**MAN Elective	3
MAN Elective	3	*Elective	3

***Students select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.*

HUMAN RESOURCE MANAGEMENT TRACK

Junior			
1st Term	16 hrs	2nd Term	15 hrs
GEB 3031	4	BUL 3130	4
GEB 3356	4	MAN 3301	3
MAR 3023	4	ECO 3411	4
MAN 3025	4	FIN 3403	4

Senior			
1st Term	16 hrs	2nd Term	16 hrs
MAN 4330	3	MAN 4720	4
MAN 4240	3	MAN 4350	3
MAN 4320	3	**MAN Elective	3
ISM 3011	4	**MAN Elective	3
MAN Elective	3	*Elective	3

***Students select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.*

ENTREPRENEURSHIP TRACK

Junior			
1st Term	16 hrs	2nd Term	15 hrs
GEB 3031	4	MAN 4802	3
GEB 3356	4	ECO 3411	4
MAR 3023	4	BUL 3130	4
MAN 3025	4	FIN 3403	4

Senior			
1st Term	16 hrs	2nd Term	16 hrs
GEB 4111/FIN 3470	3	MAN 4720	4
MAR 3641/3391	3	GEB 4117	3
MAN 3301	3	**MAN Elective	3
ISM 3011	4	**MAN Elective	3
MAN Elective	3	*Elective	3

***Student select three electives from among MAN courses and BUL 4540.
***General electives as required to reach 120 semester hours.*

MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
Required SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	3 hrs
Select MAC 1105 College Algebra	
Select CGS 2100CC Computer Fundamentals for Bus	3 hrs
D. Social Foundations	3 hrs
Select ECO 2013 Macroeconomics <i>or</i>	
ECO 2023 Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a 2.0 or better.	
ACG 2021	Principles of Financial Accounting 3 hrs
ACG 2071	Principles of Managerial Accounting 3 hrs
ECO 2013	Macroeconomics 3 hrs
ECO 2023	Microeconomics 3 hrs
CGS 2100CC	Computer Fundamentals for Business 3 hrs
*ECO 3401	Quantitative Business Tools I 3 hrs

**At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.*

3. Required for All Business Majors (36 hrs)

First or subsequent semester in the College of Business Administration:	
GEB 3031	Cornerstone (Required in 1st or 2nd semester) 4 hrs
GEB 3356	Introduction to International Business 4 hrs
BUL 3130	Legal & Ethical Environments of Business 4 hrs
ECO 3411	Quantitative Business Tools II 4 hrs
FIN 3403	Business Finance 4 hrs
MAN 3025	Management of Organizations 4 hrs
MAR 3023	Marketing 4 hrs

ISM 3011	Essentials of Management Info Systems	4 hrs
Last Semester: MAN 4720	Strategic Management	4 hrs

4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.0 GPA in Common Program Prerequisites.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- All courses required for the major (including electives) must be completed with a grade of "C" (2.0) or better in order to graduate.
- All College of Business Administration students are expected to have access to late model computers and the software needed to complete class assignments. This requirement is especially important for MIS majors. Contact a department advisor for the current expectations.
- Students are cautioned to study the course prerequisite structure and the Four Year Plan of Study later in this section when planning their schedules. MIS course prerequisites cannot be waived.
- Lower division courses may not be taken for upper division credit in the major.
- Students must earn at least a 2.0 GPA in the major and COB.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisite class.

5. Required Courses (20 hrs)

ISM 3253	MIS Techniques	4 hrs
ISM 4113	Information Systems Analysis & Design	3 hrs
ISM 4212C	Database Management Systems	4 hrs
ISM 4220	Distributed Information Systems	3 hrs
ISM 4300	Information Technology Management	3 hrs
ISM 4400	Decision Support Systems	3 hrs

Plus one of the following: (6 hrs)

Any 3000 or 4000 level ISM prefix course.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives*** (variable)

Total Semester Hours Required 120 hrs

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the cal-

culus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100CC*	3

Must complete nine hours in a summer semester

Sophomore

1st Term	15 hrs	2nd Term	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3

***"C" (2.0) or better grade required in each class*

Junior

1st Term	17 hrs	2nd Term	16 hrs
GEB 3031	6	MAR 3023	3
ISM 3011	4	ISM 4400	3
ISM 3253	4	ISM 4212C	4
GEB 3356	3	ISM 4220	3
		ECO 3411	3

Senior

1st Term	15 hrs	2nd Term	15 hrs
ISM Elective	3	MAN 4720	3
FIN 3403	3	ISM 4300	3
*** Elective	3	ISM Elective	3
MAN 3025	3	ISM Elective	3
ISM 4113	3	BUL 3130	3

****General electives as required to reach 120 semester hours.*

MARKETING (B.S.B.A.) – GENERAL PROGRAM

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program	(36 hrs)
A. Communication Foundations Required SPC 1600	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations Select MAC 1105 College Algebra	3 hrs
Select CGS 2100C Computer Fundamentals for Bus	3 hrs
D. Social Foundations Select ECO 2013 Macroeconomics <i>or</i>	3 hrs

UCF Degree Programs

ECO 2023 Microeconomics		
Select one: PSY 2012, SYG 2000, ANT 2000		3 hrs
E. Science Foundation		6 hrs

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a "C" (2.0) or better.

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs
ECO 2013	Macroeconomics	3 hrs
ECO 2023	Microeconomics	3 hrs
*ECO 3401	Quantitative Business Tools I	3 hrs
CGS 2100C	Computer Fundamentals for Business	3 hrs

*At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)

First or subsequent semester in the College of Business Administration:

GEB 3031	Cornerstone (Required in 1 st or 2 nd semester)	4 hrs
GEB 3356	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011	Essentials of Management	4 hrs
	Information Systems	
MAR 3023	Marketing	4 hrs

Last Semester:
MAN 4720 Strategic Management 4 hrs

4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in Marketing must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students majoring in Marketing must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses (18 hrs)

MAR 3391	Professional Selling	3 hrs
MAR 3503	Customer Behavior	3 hrs
MAR 3613	Marketing Analysis and Research	3 hrs
MAR 3641	Marketing Intelligence	3 hrs
MAR 4803	Marketing Management	3 hrs
MAR 4804	Marketing Strategy	3 hrs

6. Restricted Electives - General Marketing (6 hrs)

Minimum of 2 courses required:

MAR 3323	Integrated Marketing Communication	3 hrs
MAR 3403	Sales Force Management	3 hrs
MAR 3880	E-Marketing	3 hrs
*MAR 4156	International Marketing	3 hrs
MAR 4231	Retailing Management	3 hrs
MAR 4711	Sport Marketing	3 hrs
MAR 4712	Healthcare Marketing	3 hrs
MAR 4715	Entertainment Marketing	3 hrs
*MAR 4724	Strategic Foundations in Global e-Business	3 hrs
MAR 4841	Services Marketing	3 hrs
MAR 4941	Marketing Internship	3 hrs

*Either MAR 4156 or MAR 4724 (not both) may be taken as an elective.

7. Restricted Electives-Sales Track* (9 hrs)

Students must take:

MAR 3403	Sales Force Management	3 hrs
MAR 4392	Advanced Professional Selling	3 hrs
MAR 4413	Strategic Issues in Sales	3 hrs

*Admission by department approval. Restricted to declared marketing majors. Requires submission of application by May 1. Must have earned a grade of B (3.0)

or higher in MAR 3391 to apply. Department faculty committee will select a maximum of 40 sales track participants based on academic achievement, work experience, outside activities and leadership positions, and responses to questions on the application form. MAR 4392 is offered in the fall semester; MAR 4413 is offered in the spring semester.

8. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)

Total Semester Hours Required 120 hrs

Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941). For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: <http://www.bus.ucf.edu/mar/>.

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY – GENERAL MARKETING

Freshman		15 hrs 2nd Term		15 hrs	
1st Term					
ENC 1101*		3	ENC 1102*		3
Cult-Hist I*		3	Cult-Hist II*		3
SPC 1600		3	Art/Music/Lit		3
***Elective		3	MAC 1105*		3
***Elective		3	CGS 2100C		3

Must complete nine hours in a summer semester

Sophomore

UCF Degree Programs

1st Term	15 hrs	2nd Term	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3

Junior			
1st Term	16 hrs	2nd Term	17 hrs
ECO 3411	4	MAR 3391	3
GEB 3031	4	BUL 3130	4
GEB 3356	4	FIN 3403	4
MAR 3023	4	MAR 3503	3
		MAR 3613	3

Senior			
1st Term	17 hrs	2nd Term	13 hrs
MAR 4803	3	MAN 4720	4
MAR Elective	3	MAR 4804	3
MAN 3025	4		
ISM 3011	4	MAR Elective	3
MAR 3641	3	GE Non-Business Elective	3

General electives as required to reach 120 semester hours.

FOUR YEAR PLAN OF STUDY – MARKETING: SALES TRACK

Freshman			
1st Term	15 hrs	2nd Term	15 hrs
ENC 1101*	3	ENC 1102*	3
Cult-Hist I*	3	Cult-Hist II*	3
SPC 1600	3	Art/Music/Lit	3
***Elective	3	MAC 1105*	3
***Elective	3	CGS 2100C	3

Must complete nine hours in a summer semester

Sophomore			
1st Term	15 hrs	2nd Term	15 hrs
ECO 2023*	3	ECO 2013*	3
ACG 2021*	3	ACG 2071*	3
Science	3	Science	3
Psy/Soc/Ant	3	***Elective	3
***Elective	3	ECO 3401*	3

C (2.0) or better grade required in each class

Junior			
1st Term	16 hrs	2nd Term	16 hrs
ECO 3411	4	MAR 3391	3
GEB 3031	4	MAR 3403	3
GEB 3356	4	FIN 3403	4
MAR 3023	4	MAR 3503	3
		MAR 3613	3

Senior			
1st Term	17 hrs	2nd Term	17 hrs
MAR 4803	3	MAN 4720	4
MAR 4392	3	MAR 4804	3
MAN 3025	4	BUL 3130	4
ISM 3011	4	MAR 4414	3
MAR 3641	3	GE Non-Business Elective	3

General electives as required to reach 120 semester hours.

MATHEMATICS-APPLIED TRACK (B.S.)

College of Sciences
Department of Mathematics, MAP 207, 407-823-6284
<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

Contact: H. Martin, MAP 215A, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers courses identified by a suffix of H for students in the Honors Program; e.g., MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be

- taken from the UCF Math Department
- Co-op or internship credit cannot be used in this major
- Students must earn at least a "C" (2.0) in each required course
- Students should consult with a departmental advisor
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+2 hrs)

(Note: Certain courses must be selected for this major, bringing GEP hours above 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311	4 hrs
2. Select COP 3502C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select PHY 2048 & L	4 hrs
2. Select a listed course	3 hrs

2. Common Program Prerequisites (15 hrs)

COP 3223*	Intro to Programming with C	3 hrs
MAC 2311	Calculus with Analytic Geo I	GEP
MAC 2312	Calculus with Analytic Geo II	4 hrs
MAC 2313	Calculus with Analytic Geo III	4 hrs
PHY 2048*&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049*&L	Physics for Sci & Eng II w/lab	4 hrs

*See Transfer Notes for possible substitutes

3. Core requirements (48 hrs)

PHY 2048&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049&L	Physics for Sci & Eng II w/lab	CPP
One course selected from		3 hrs
ENC 3241	Writing for Tech Professional	
ENC 3310	Magazine Writing I	
ENC 3311	Advanced Expository Writing	
STA 2023	Statistical Methods I	3 hrs
MHF 3302	Logic and Proof in Mathematics	3 hrs
MAP 2302	Differential Equations	3 hrs
MAS 3105	Matrix & Linear Algebra	4 hrs
MAS 3106	Linear Algebra	4 hrs
Select one course		3-4 hrs
MAD 4203	Combinatorics & Graph Theory I	
MAP 4153	Vector and Tensor Analysis	
MAP 4307	Appl of Complex Variables	3 hrs
MAP 4363	Appl Boundary Value Prob I	3 hrs
STA 4321	Statistical Theory I	3 hrs
MAP 4364	Appl Boundary Value Prob II	3 hrs
COP 3502C	Computer Science I	GEP
STA 4322	Statistical Theory II	3 hrs
MAA 4226	Advanced Calculus I	4 hrs
COT 4500	Numerical Calculus	3 hrs
MAP 4103	Mathematical Modeling I	3 hrs

4. Restricted Electives (6 hrs)

- a. Applied Elective 3 hrs
 Select from COT 4210, COT 4400, COT 5507, COT 5510, EGN 3310, EGN 3321, EGN 3343, EGN 3373, STA 4102, STA 5103, STA 4641
- b. Biological or physical sciences Elective 3 hrs
- Note: Students must satisfy course prerequisites before enrolling
 Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CHM 3410, CHM 2210, PHY 3101, PHY 3323, PHY 4324, PHY 4424, PHY 4604

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview.
- Computer Competency met by COP 2200
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: **none**

7. Electives **(variable)**

UCF Degree Programs

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required **120 hrs**

Related Programs: Applied Math, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- COP 3223* may use any programming language course with a COP prefix
- PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or BSC course with a lab designed for science majors; however, PHY 2048 & PHY 2049 with labs are core requirements and still must be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Math placement See catalog 0

Freshman Year

Fall	Spring		
ANT 2000* req# 1D2-GEP	3 BSC 1005* req#1E2 GEP	3	
ENC 1101 Composition I	3 ENC 1102 Composition II	3	
MAC 2311 Calc Anal Geo I	4 MAC 2312 Calc Anal Geo II	4	
STA 2023 Stat Methods I	3 MHF 3302 Logic and in Math	3	

Sophomore Year

Fall	Spring		
COM 1000* req# 1A3-GEP	3 POS 2041* req# 1D1-GEP	3	
PHY 2048 Phy for Eng Sci I	3 MAP 2302 Dif Equations	3	
PHY 2048L Phy L Eng Sci I	1 MAS 3106 Linear Algebra	4	
MAC 2313 Calc Anal Geo III	4 PHY 2049 Phy for Eng Sci II	3	
MAS 3105 Matrix and Lin Alg	4 PHY 2049L Phy L Eng Sci II	1	

Junior Year

Fall	Spring		
AMH 2010* req# 1B1-GEP	3 COP 3502C Computer Science I	3	
COP 3223 Intro to Prog C	3 MUL 2010* req# 1B2-GEP	3	
MAD 4203* req# 3-Core	4 MAP 4307 App complex var	3	
MAP 4363 Ap Bound Prob I	3 MAP 4364 Ap Bound Prob II	3	
Elective* Check restrictions	4 Elective* Check restrictions	4	

Senior Year

Fall	Spring		
ARH 2050* req# 1B3-GEP	3 ENC 3241* req# 3-Core	3	
COT 4500 Numerical Calculus	3 MAP 4103 Math Modeling I	3	
MAA 4226 Adv Calculus I	4 STA 4322 Stat Theory II	3	
STA 4321 Stat Theory I	3 PCB 3063* req# 4b-ResElec	3	
COT 4210* req# 4a-ResElec	3 Elective* Check restrictions	4	

MATHEMATICS - COMPUTATIONAL TRACK (B.S.)

College of Sciences

Department of Mathematics, MAP 207, 407-823-6284

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

Contact: H. Martin, MAP 215A, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers courses identified by a suffix of H for students in the Honors Program; e.g., MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(36 + 2 hrs)

(Note: Certain courses must be selected for this major, bringing GEP hours above 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311	4 hrs
2. Select COP 3502C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select PHY 2048 & L	4 hrs
2. Select a listed course	3 hrs

2. Common Program Prerequisites

(15 hrs)

COP 3223*	Intro to Programming with C	3 hrs
MAC 2311	Calculus with Analytic Geo I	GEP
MAC 2312	Calculus with Analytic Geo II	4 hrs
MAC 2313	Calculus with Analytic Geo III	4 hrs
PHY 2048*&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049*&L	Physics for Sci & Eng II w/lab	4 hrs

*See Transfer Notes for possible substitutes

3. Basic Core Requirements

(6 hrs)

COP 3502C	Computer Science I	GEP
PHY 2048&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049&L	Physics for Sci & Eng II w/lab	CPP
STA 2023	Statistical Methods I	3 hrs
MAP 2302	Differential Equations	3 hrs

4. Advanced Core Requirements

(43 hrs)

Select one course		3 hrs
MHF 3302	Logic and Proof in Mathematics	
COT 3100C	Intro to Discrete Structures	
ENC 3241	Writing for the Tech Professional	3 hrs
MAS 3106	Linear Algebra	4 hrs
MAD 4203	Combinatorics & Graph Theory	4 hrs
MAP 4307	Appl of Complex Variables	3 hrs
MAP 4363	Appl Boundary Value Prob I	3 hrs
STA 4321	Statistical Theory I	3 hrs
MAP 4364	Appl Boundary Value Prob II	3 hrs
COP 3503C	Computer Science II	4 hrs
STA 4322	Statistical Theory II	3 hrs
MAA 4226	Advanced Calculus I	4 hrs
COT 4500	Numerical Calculus	3 hrs
Select one course		3 hrs
MAP 4103	Mathematical Modeling I	
MAP 4153	Vector and Tensor Analysis	

5. Restricted Electives

(18 hrs)

Select six upper division courses		
COP 3402	Systems Software	3 hrs

COP 3530C	Computer Science III	3 hrs
CDA 4150C	Computer Architecture	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs
COT 4210	Discrete Computational Structures	3 hrs
or any MAA, MAD, MAP, MAS, or MTG upper division courses		

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview.
- Computer Competency met by COP 3502C.
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: **none**

8. Electives (variable)

Students desiring to complete a double major in both Computer Science and Applied Mathematics must also complete all the requirements of the School of Computer Science. To minimize the total hours taken for both majors, students should select an advanced computer science course for the unrestricted elective.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- COP 3223*: may use any programming language course with a COP prefix.
- PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or BSC course with a lab designed for science majors; however, PHY 2048 & PHY 2049 with labs are core requirements and still must be taken.

MATHEMATICS - ENGINEERING/PHYSICS TRACK (B.S.)

College of Sciences

Department of Mathematics, MAP 207, 407-823-6284

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

Contact: H. Martin, MAP 215A, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers courses identified by a suffix of H for students in the Honors Program; e.g., MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major

must adopt the most current catalog.

- All mathematics courses except MAC 2311, MAC 2312, MAC 2313 and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(36+2 hrs)

(Note: Certain courses must be selected for this major, bringing GEP hours above 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311	4 hrs
2. Select COP 3502C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select PHY 2048 & L	4 hrs
2. Select a listed course	3 hrs

2. Common Program Prerequisites

(15 hrs)

COP 3223*	Intro to Programming with C	3 hrs
MAC 2311	Calculus with Analytic Geo I	GEP
MAC 2312	Calculus with Analytic Geo II	4 hrs
MAC 2313	Calculus with Analytic Geo III	4 hrs
PHY 2048*&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049*&L	Physics for Sci & Eng II w/lab	4 hrs

*See Transfer Notes for possible substitutes

3. Basic Core Requirements

(6 hrs)

COP 3502C	Computer Science I	GEP
PHY 2048&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049&L	Physics for Sci & Eng II w/lab	CPP
MAP 2302	Differential Equations	3 hrs
Select one course		3 hrs
STA 3032	Prob. & Stats for Engineers	
STA 2023	Statistical Methods I	

4. Advanced Core Requirements

(53 hrs)

Select one course		3 hrs
MHF 3302	Logic and Proof in Mathematics	
COT 3100C	Intro to Discrete Structures	
Select one course		3 hrs
MAP 4103	Mathematical Modeling I	
EML 3034	Modeling Meth in Mech. & Aero Eng	
PHZ 3151	Computer Methods in Physics	
MAP 4153	Vector and Tensor Analysis	3 hrs
MAP 4307	Appl of Complex Variables	3 hrs
MAP 4363	Appl Boundary Value Prob I	3 hrs
MAP 4364	Appl Boundary Value Prob II	3 hrs
MAA 4226	Advanced Calculus I	4 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
Select one course		3 hrs
EGN 3420	Engineering Analysis	
COT 4500	Numerical Calculus	
Select one course		4 hrs
MAS 3106	Linear Algebra	
MAD 4203	Combinatorics & Graph Theory	
Select one course		3 hrs
EGN 3310	Engineering Analysis - Statics	
PHY 3220	Mechanics I	
Select one course		3 hrs
EGN 3373	Principles of Electrical Engineering	
PHY 3101	Physics for Eng & Sci III	
Select one course		3 hrs
CHM 2046	Chemistry Fundamentals II	
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above		
Select one course		3 hrs
EGN 3358	Thermo-Fluids-Heat Transfer	
PHY 3513	Thermal & Statistical Physics	
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above		
Select one course		3 hrs
EML 3701	Fluid Mechanics	
CWR 3201	Engineering Fluid Mechanics	
PHY 3101	Physics for Eng & Sci III	
(PHY 3101 may be selected only if EGN3373 is also taken)		
ESI 4628C	Industrial Engr Applications of Computers	

UCF Degree Programs

PHZ 3113 Intro. to Theoretical Methods of Physics
 or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above
 Select one course 3 hrs

EGN 3331 Mechanics of Materials
 CHM 2046 Chemistry Fundamentals II
 ESI 4312 Operations Research
 EGM 3601 Solid Mechanics
 EML 4220 Vibration Analysis
 EEL 3004 Electrical Networks
 PHY 4604 Wave Mechanics I
 or any MAA, MAD, MAP, or MAS course at 3000 level or above
 Select one course 3 hrs

CES 4100C Structural Analysis I
 EGN 3331 Mechanics of Materials
 EIN 3000 Intro. to Indust. Eng. & Mngmnt Sys
 EAS 3101 Fundamentals of Aerodynamics
 EGM 3601 Solid Mechanics
 EEL 3004 Electrical Networks
 or any PHY, PHZ, AST, MAA, MAD, MAP, or MAS course at 3000 level or above

5. Restricted Electives (6 hrs)

Select two courses

STA 4321	Statistical Theory I	3 hrs
STA 4322	Statistical Theory II	3 hrs
PHY 3323	Electricity & Magnetism I	3 hrs
PHY 4324	Electricity & Magnetism II	3 hrs
EGN 3365	Structure & Property of Materials	3 hrs
EGN 3613	Engineering Economic Analysis	2 hrs
EEL 3342C	Intro. to Digital Circuits and Systems	3 hrs
EEL 3801	Intro. to Computer Engineering	3 hrs
EEL 3657	Linear Control Systems	3 hrs
EML 4142	Heat Transfer	3 hrs
EML 4312C	Feedback Control	3 hrs
EML 3262	Kinematics of Mechanisms	3 hrs
EAS 4200	Flight Structures	3 hrs
EAS 4400	Spacecraft Attitude Dynamics	3 hrs
EAS 4505	Orbital Mechanics	3 hrs
EAS 4105	Flight Mechanics	3 hrs
EML 4703	Fluid Mechanics II	3 hrs
EMA 4223	Fund. of Mechanical Behavior of Materials	3 hrs
CWR 4203C	Hydraulics	3 hrs
CWR 4101C	Hydrology	3 hrs
ENV 4561	Environmental Eng - Process Design	4 hrs
ESI 4234	Quality Engineering	3 hrs
ESI 4523C	Systems Simulation	3 hrs
EIN 4333C	Industrial Control Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Analog & Digital Communication Fund.	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs
EEL 4832	Eng. Applications of Computer Models	3 hrs
EEL 4851C	Engineering Data Structures	4 hrs

or any MAA, MAD, MAP, or MAS course at 3000 level or above

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview.
- Computer Competency met by EGN 3420 or COP 3502C.
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Electives (variable)

Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- COP 3223*: may use any programming language course with a COP prefix.
- PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or BSC course with a lab designed for science majors; however, PHY 2048 & PHY 2049 with labs are core requirements and still must be taken.

MATHEMATICS - PURE TRACK (B.S.)

College of Sciences

Department of Mathematics, MAP 207, 407-823-6284

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

Contact: H. Martin, MAP 215A, 407-823-5700,

E-mail: martin@math.ucf.edu

The Department of Mathematics offers courses identified by a suffix of H for students in the Honors Program; e.g., MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 + 2 hrs)

(Note: Certain courses must be selected for this major, bringing GEP hours above 36)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311	4 hrs
2. Select COP 3502C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select PHY 2048 & L	4 hrs
2. Select a listed course	3 hrs

2. Common Program Prerequisites (15 hrs)

COP 3223*	Intro to Programming with C	3 hrs
MAC 2311	Calculus with Analytic Geo I	GEP
MAC 2312	Calculus with Analytic Geo II	4 hrs
MAC 2313	Calculus with Analytic Geo III	4 hrs
PHY 2048*&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049*&L	Physics for Sci & Eng II w/lab	4 hrs

*See Transfer Notes for possible substitutes

3. Core requirements (49 hrs)

PHY 2048&L	Physics for Sci & Eng I w/lab	GEP
PHY 2049&L	Physics for Sci & Eng II w/lab	CPP
One course selected from		3 hrs
ENC 3241	Writing for the Tech Professional	

ENC 3310	Magazine Writing	
ENC 3311	Advanced Expository Writing	
STA 2023	Statistical Methods	3 hrs
MHF 3302	Logic and Proof in Mathematics	3 hrs
MAP 2302	Differential Equations	3 hrs
MAS 3105	Matrix & Linear Algebra	4 hrs
MAS 3106	Linear Algebra	4 hrs
MAP 4363	Applied Boundary Value Prob I	3 hrs
STA 4321	Statistical Theory I	3 hrs
MAS 4301	Algebraic Structures	3 hrs
STA 4322	Statistical Theory II	3 hrs
COP 3502C	Computer Science I	GEP
MAA 4226	Advanced Calculus I	4 hrs
MAA 4227	Advanced Calculus II	3 hrs
MAD 4203	Combinatorics & Graph Theory	4 hrs
MTG 4302	Introduction to Topology	3 hrs
MAP 4307	Appl to Complex Variables	3 hrs

4. Restricted Electives (3 hrs)
Biological or physical sciences electives 3 hrs

Note: Students must satisfy course prerequisites before enrolling
Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CHM 2210, CHM 2046, PHY 3101, PHY 3323, PHY 4424

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview.
- Computer Competency met by COP 3502C
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements

Admission: Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Statistics, Applied Math, Computer Science, Engineering, Math Education

Related Minors: Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- COP 3223*: may use any programming course with a COP prefix.
- PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or BSC course with a lab designed for science majors; however, PHY 2048 & PHY 2049 with labs are core requirements and still must be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Math placement See catalog 0

Freshman Year

Fall		Spring	
ANT 2000* req# 1D2-GEP	3	BSC 1005* req#1E2 GEP	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MAC 2311 Calc Anal Geo I	4	MAC 2312 Calc Anal Geo II	4
STA 2023 Stat Methods I	3	MHF 3302 Logic and in Math	3

Sophomore Year

Fall		Spring	
COM 1000* req# 1A3-GEP	3	POS 2041* req# 1D1-GEP	3
PHY 2048 Phy for Eng Sci I	3	MAP 2302 Dif Equations	3
PHY 2048L Phy L Eng Sci I	1	MAS 3106 Linear Algebra	4
MAC 2313 Calc Anal Geo III	4	PHY 2049 Phy for Eng Sci II	3
MAS 3105 Matrix and Lin Alg	4	PHY 2049L Phy L Eng Sci II	1

Junior Year

Fall		Spring	
COP 3223 Intro to Prog C	3	COP 3502C Computer Science I	3
MAP 4363 Ap Bound Prob I	3	MUL 2010* req# 1B2-GEP	3
MAS 4301 Algebraic Struct	3	MAP 4307 App complex var	3
Elective* Check restrictions	4	PCB 3063* req# 4-ResElect	3
Elective* Check restrictions	3	Elective* Check restrictions	4

Senior Year

Fall		Spring	
AMH 2010* req# 1B1-GEP	3	ARH 2050* req# 1B3-GEP	3
ENC 3241* req# 3-Core	3	MAA 4227 Adv Calculus II	3
MAA 4226 Adv Calculus I	4	MTG 4302 Intro to Topology	3
MAD 4203 Comb Thry	4	STA 4322 Stat Theory II	3
STA 4321 Stat Theory I	3	Elective* Check restrictions	4

MATHEMATICS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://pegasus.cc.ucf.edu/~mathed>

Program Coordinator: Dr. Janet Andreasen, ED 123Q,
407-823-5430, E-mail: jandreas@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36+1 hrs)

A. Communication Foundation	(9 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer: SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation	(9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877	3 hrs
2. Prefer: PHI 2010 Introduction to Philosophy	3 hrs
3. Prefer: AMH 2020 U.S. History 1877-present	3 hrs
C. Mathematical Foundation	(7 hrs)
1. Select: MAC 2311 Calculus with Analytic Geometry I	4 hrs
2. Select: STA 2023 Statistical Methods I	3 hrs
D. Social Foundation	(6 hrs)
1. Prefer: POS 2041 American National Government	3 hrs
2. Prefer: PSY 2012 General Psychology	3 hrs
E. Science Foundation	(6 hrs)
1. Prefer: PSC 1121 Physical Science	3 hrs
2. Prefer: ANT 2511 The Human Species <i>or</i> BSC 1005 Biological Principles	3 hrs

UCF Degree Programs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites	(9 hrs)
EDF 2005 Introduction to Education	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs
EME 2040 Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements	(14 hrs)
EDF 2130* Child & Adolescent Development for Educators	3 hrs
MAC 2311 Calculus with Analytic Geometry I	GEP
STA 2023 Statistical Methods I	GEP
MAC 2312 Calculus with Analytic Geometry II	4 hrs
MAC 2313 Calculus with Analytic Geometry III	4 hrs
MAP 2302 Differential Equations	3 hrs

Note: Students should consult advisor regarding course options.

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements	(18 hrs)
EDG 4410 Teaching Strategies and Classroom Mgmt	3 hrs
EDF 4467 Learning Theory and Assessment	3 hrs
EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools	3 hrs
EEX 4074 Teaching Exceptional Students in Sec Settings	3 hrs
RED 4043 Content Reading Kindergarten thru Grade 12	3 hrs

- Prior to Internship I, the student must have completed EDG 4410 Teaching Strategies and Classroom Management and at least 50% of all required mathematics courses with a letter grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.

5. Internship I	(3 hrs)
ESE 3940 Internship I	3 hrs

6. Specialization Requirements	(27 hrs)
A grade of "C-" (1.75) or better is required.	
MAS 3105 Elementary Linear and Matrix Algebra	4 hrs
MAS 3203 Introduction to Number Theory	3 hrs
MHF 3302 Logic and Proof in Mathematics	3 hrs
MHF 4404 History of Mathematics	3 hrs
MTG 4212 Modern Geometry	4 hrs
STA 4163 Statistical Methods II	3 hrs
MAE 4360 Mathematics Instructional Analysis	4 hrs
MAE 4634 Programs in Teaching Mathematics	3 hrs

7. Internship II Block	(12 hrs)
ESE 4943 Internship II	11 hrs
ESE 4942 Internship II Secondary Seminar	1 hr

- At least 80% of all required mathematics courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing scores on the Subject Area Examination (Mathematics 6-12) portion of the Florida Teacher Certification Examination is strongly recommended prior to entry into Internship II.

- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the preprofessional level in accordance with State Board of Education Rule 6A-5.066.

8. Foreign Language Requirements (0-8 hrs)
 State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

Freshman Year			
Fall	(13 hrs)	Spring	(16 hrs)
EDG 2701 Teaching Diverse Pop	3	AMH 2010 U.S. History 1492-1877	3
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
MAC 2311 Calculus with Analytic Geo I	4	MAC 2312 Calculus w/Analy Geo II	4
PSC 1121 Physical Science	3	ANT 2511 The Human Species or BSC 1005 Biological Principles	3
		SPC 1600 Fund of Oral Comm	3
Summer (10 hrs)			
EDF 2005 Intro to Education	3		
MAC 2313 Calculus with Analytic Geo III	4		
PHI 2010 Intro to Philosophy	3		
Sophomore Year			
Fall	(15 hrs)	Spring	(16 hrs)
MAP 2302 Differential Equations	3	AMH 2020 US History 1877-present	3
MHF 3302 Logic & Proof in Math	3	EME 2040 Technology for Educator	3
PSY 2012 General Psychology	3	MAS 3105 Elem Lin Matrix Algebra	4
POS 2041 American National Gov	3	MAS 3203 Intro to Number Theory	3
STA 2023 Statistical Methods I	3	EDF 2130* Child and Adol Dev Ed	3

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Junior Year			
Fall	(14 hrs)	Spring	(12 hrs)
EDF 4467 Learn Theory & Assmt	3	RED 4043 Content Read K-12	3
EDG 4410 Teach Strat & Class Mgmt	3	MAE 4634 Prog in Teach Math	3
MAE 4360 Math Instruct Analysis	4	STA 4163 Statistical Methods II	3
MTG 4212 Modern Geometry	4	TSL 4080 Theory & Prac of Teach ESOL Students in Schools	3

Senior Year			
Fall	(12 hrs)	Spring	(12 hrs)
ESE 3940 Internship I	3	ESE 4943 Internship II	11
EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch	3	ESE 4942 Intern II Sec Seminar	1
MHF 4404 History of Math	3		
EEX 4074 Teach Ex Stud in Sec Setting	3		

MECHANICAL ENGINEERING (B.S.M.E.)

**College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering
Department,
ENGR 307, 407-823-2416; Fax: 407-823-0208
<http://www.mmae.ucf.edu>**

Associate Chair: Dr. Kuo-Chi Lin, E-mail: klin@mail.ucf.edu;
Undergraduate Advisor: Waheeda Illasarie,
E-mail: willasar@mail.ucf.edu

Admission Requirements: none

1. UCF General Education Program for Engineering Students (36+2 hrs)

The UCF General Education Program (GEP) is described in the section, **General Education Program**, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs **A** through **E**, below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites *before* transferring.

- A. Communication Foundations 9 hrs
 - 1. ENC 1101 & ENC 1102
 - 2. Prefer SPC 1016
- B. Cultural and Historical Foundations 9 hrs
 - 1. Select two courses from Historical Foundations
 - 2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, *or* LIT 2120
- C. Mathematical Foundations 7 hrs
 - 1. Select MAC 2311 (PR: MAC 1114)
 - 2. Select STA 3032 (PR: MAC 2312).
- D. Social Foundations 6 hrs
 - 1. Prefer ECO 2013 *or* ECO 2023.
 - 2. ANT 2000, PSY 2012, *or* SYG 2000.
- E. Science Foundations 7 hrs
 - 1. Select PHY 2048/48L (PR: MAC 2311)
 - 2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, *or* MCB 1310

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. **To enroll in MMAE major courses, a 2.0 (C or better) in each course is required for those courses in section 2. marked with an asterisk (*).** Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440*	Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute)	4 hrs
MAC 2311*	Calculus with Analytic Geometry I	GEP
MAC 2312*	Calculus with Analytic Geometry II	4 hrs
MAC 2313*	Calculus with Analytic Geometry III	4 hrs
MAP 2302*	Differential Equations	3 hrs
PHY 2048/48L*	Physics for Engineers & Scientists I	GEP
PHY 2049/49L	Physics for Engineers & Scientists II	4 hrs
ENC 1101	Composition I	GEP
ENC 1102	Composition II	GEP
	Humanities Courses	GEP
	Social Science Courses	GEP
	Humanities <i>or</i> Social Sciences	GEP

3. Courses Required for the Major (65 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the senior design courses listed in 4. below.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engrng	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EML 3034	Modeling Methods in MMAE	3 hrs
EML 3303C	Mechanical Engrng Measurements	3 hrs
EML 4312C	Feedback Control	3 hrs
EML 3500	Machine Design & Analysis	3 hrs
EGM 3601	Solid Mechanics	3 hrs

EML 3701	Fluid Mechanics I	3 hrs
EML 4142	Heat Transfer	3 hrs
EML 4220	Vibration Analysis	3 hrs
EML 4535C	Introduction to CAD/CAM	3 hrs

Select one of the following three options for your senior year to complete your BSME. (21 hrs)

- a. **Energy Systems Option**
 - EML 3101 Thermodynamics of Mechanical Sys 3 hrs
 - EML 4304C Thermo-fluids Measurements 2 hrs
 - EML 4703 Fluid Mechanics II 3 hrs
 - EML 4145 Topics in Heat Transfer 1 hr
 - Restricted Mechanical Systems Elective 3 hrs
 - Approved Electives 9 hrs
- b. **Mechanical Systems Option**
 - EML 4304C Thermo-fluids Measurements 2 hrs
 - EML 3262 Kinematics of Mechanisms 3 hrs
 - EGM 3601L Solid Mechanics Lab 1 hr
 - Restricted Energy Systems Elective 3 hrs
 - Approved Electives 12 hrs
- c. **Materials Option**
 - EMA 3012C Experimental Techniques in Mechanics & Materials 3 hrs
 - EMA 4102 Thermodynamics and Kinetics of Materials 3 hrs
 - EMA 3124 Design and Selection of Materials 3 hrs
 - EMA 4223 Fundamentals of Mech. Behavior of Materials 3 hrs
 - Approved Electives 9 hrs

4. Departmental Graduation Requirements (6 hrs)

These courses are a capstone experience to your engineering program and should be completed in your last 2 major semesters of study.

- EML 4501C Engineering Design I 3 hrs
- or* EGN 4412C Interdisciplinary Design I
- EML 4502C Engineering Design I 3 hrs
- or* EGN 4413C Interdisciplinary Design II

CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

6. Approved Restricted and Technical Electives

Technical electives are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their Department for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Aerospace Engineering, Industrial Engineering.

Related Minors: Space Studies, Intelligent Robotic Systems, Engineering Leadership.

Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
- EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The two credit hours for these courses may be

UCF Degree Programs

substituted by an approved Mechanical Engineering technical elective for transfer students.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their Department to develop and maintain an appropriate plan of study.

Mechanical Engineering - 128 semester hours required

FIRST YEAR

Fall	15 hrs ¹	Spring	15 hrs ¹
EGN 1006C Intro to Eng Prof	1	EGN 1007C Eng Conc & Meth	1
*ENC 1101 English Comp I	3	*ENC 1102 English Comp II	3
*CHS 1440 Chm Eng	4	*MAC 2312 Calc II	4
or CHM 2045C w/lab		*SPC 1016 Oral Comm for Eng	3
*MAC 2311 Calc I	4	*PHY 2048 Phys Eng I w/lab	4
*ECO 2013 or 2023 Macro or Micro	3		

Summer	10 hrs ^{1, 3, 4}
*MAC 2313 Calc III	4
*Social Foundations	3
*Historical Foundations	3

SECOND YEAR

Fall	13 hrs ¹	Spring	15 hrs
STA 3032 Prob & Stats/Engrs	3	EGN 3321 Engr Anal-Dynamics	3
*MAP 2302 Diff Equations	3	EGN 3365 Strctr & Prop Mats	3
EGN 3310 Engr Anal-Statics	3	EGN 3343 Thermodynamics	3
*PHY 2049 Phys Eng II w/lab	4	EGM 3601 Solid Mechanics	3
		EGN 3373 Prin of Elec Engr	3

THIRD YEAR

Fall	15 hrs ¹	Spring	15 hrs
EML 3500 Machine Design	3	EML 4220 Vibration Analysis	3
EML 3701 Fluid Mechanics I	3	Approved Technical Elective	3
EML 3034 Modeling Methods	3	EML 4142 Heat Transfer	3
EML 3303C Mech Engr Meas	3	EML 4535C CAD/CAM	3
*Science Foundations 2	3	*Historical Foundations	3

FOURTH YEAR

I. ENERGY SYSTEMS OPTION

Fall	15 hrs ^{1, 2}	Spring	15 hrs ^{1, 2}
EML 3101 Thermo Mech Sys	3	EML 4502C Eng Design II	3
EML 4703 Fluid Mechanics II	3	or EGN 4413C Inter Design II	
EML 4501C Eng Design I	3	EML 4304C Meas Therm Sys	2
or EGN 4412C Inter Design I		Approved Elective	3
EML 4312C Feedback Control	3	Approved Elective	3
Restricted Mechanical Systems Elect	3	*Cultural Foundations	3
		EML 4145 Topics in Heat Transfer	1

II. MECHANICAL SYSTEMS OPTION

Fall	15 hrs ^{1, 2}	Spring	15 hrs ^{1, 2}
EML 3262 Kinem Mechnsms	3	EML 4502C Eng Design II	3
EML 4501C Eng Design I	3	or EGN 4413C Inter Design II	
or EGN 4412c Inter Design I		Approved Elective	3
EML 4312C Feedback Control	3	EML 4304C Meas Therm Sys	2
Approved Elective	3	Approved Elective	3
Restricted Energy Systems Elect	3	*Cultural Foundations	3
		EGM 3601L Solid Mechanics Lab	1

III. MATERIALS OPTION

Fall	15 hrs ^{1, 2}	Spring	15 hrs ^{1, 2}
EMA 4102 Thermo & Kinetics of Mtrls	3	EML 4502C Eng Design II	3
EML 4501C Eng Design I	3	or EGN 4413C Inter Design II	
or EGN 4412c Inter Design I		EMA 3012C Exp Tech Mech/Mtrl	3
EMA 3124 Design & Select of Mtrls	3	EMA 4223 Fund of Mech Beh Mtrl	3
EML 4312C Feedback Control	3	Approved Elective	3
Approved Elective	3	*Cultural Foundations	3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult the MMAE website (<http://www.mmae.ucf.edu>) or with the MMAE Associate Chairman in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with the MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
3. The State University System requires students to complete a mini-

um of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.

Important Notice:

- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take the courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034 ("C" or FORTRAN recommended).
- If you are not ready to begin the Calculus sequence upon entry to the Mechanical Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

Accelerated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

MEDICAL LABORATORY SCIENCES (B.S.)

Burnett College of Biomedical Sciences

HPA2 335, 407-823-5932

<http://www.biomed.ucf.edu>

Program Director: Dorilyn Hitchcock, E-mail: hitchcod@mail.ucf.edu

Admission Requirements

Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

- Separate application to the limited access program should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.
- UCF application must also be submitted by the program deadline. Acceptance to UCF is necessary before acceptance to the program can occur.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0)

Degree Requirements

- The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS - 8410 Bryn Mawr Avenue Suite 670, Chicago, IL 6063) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisite Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0)

in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program

- UCF Residency Requirement: 32 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours
- An FDLE background check and Board of Clinical Lab Personnel trainees license are required.

1. UCF General Education Program (36+2 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105	
Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	
Select BSC 2010C	4 hrs
Select CHM 2045C	4 hrs

2. Common Program Prerequisites (25 hrs)

BSC 2010C	General Biology and lab	GEP	
CHM 2045C, 2046	Chemistry Fundamentals I&II w/labs	GEP, 4 hrs	
STA 2023	Statistical Methods I	GEP	
ZOO 3733C	Human Anatomy and Lab*	4 hrs	
CHM 2210, 2211	Organic Chemistry I&II w/labs	8 hrs	
MCB 3020C	General Microbiology*	5 hrs	
PCB 3703C	Human Physiology and Lab*	4 hrs	

*See Transfer Notes

3. Core Requirements (63 hrs)

MLS 3220C	Clinical Microscopy with lab	3 hrs	
MLS 4625	Advanced Clinical Chemistry I /lab	3/1 hrs	
MLS 4630	Advanced Clinical Chemistry II	3 hrs	
PCB 3233	Immunology with Lab	3/1 hrs	
MLS 4430C	Clinical Parasitology	2 hrs	
MLS 3305	Hematology with Lab	3/1 hrs	
MLS 4505C	Immunodiagnosics	3 hrs	
MLS 4910	Intro to Clinical Research	1 hr	
MLS 4550	Clinical Immunohematology	4 hrs	
MLS 4460C	Clinical Pathogenic Microbiology	5 hrs	
MLS 4334	Hemostasis	3 hrs	
MLS 4933	Medical Technology Seminar	1 hr	
MLS 3705	Concepts in Education/Management	3 hrs	
MLS 4830C	Interpretive & Practical Clinical Chem	4 hrs	
MLS 4831C	Interpretive & Practical Immunohematology	4 hrs	
MLS 4832C	Interpretive & Practical Hematology	4 hrs	
MLS 4833C	Diagnostic Microbiology	4 hrs	
CGS 1060C	Computer Fundamentals for Business	3 hrs	
BSC 3403C	Quantitative Biological Methods	4 hrs	

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (126 hrs)

- A minimum 2.5 overall GPA is required for clinical assignment.
- The Degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University's didactic component and the clinical component in affiliated hospital laboratories
- Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and then qualify for State Licensure
- Students must earn a grade of "C" (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the

CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 126 hrs

Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

Related Minors: Molecular Biology and Microbiology, Biology, Chemistry

Transfer Notes:

Community College Equivalencies	
Human Anatomy and Physiology I & II (BSC 2093C and 2094C)	8 hrs
General Microbiology/Lab (MCB 3020C)	4 hrs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year		16 hrs	Spring	17 hrs
Fall				
ENC 1101	3	ENC 1102	3	
MAC 1105	3	BSC 2010C	4	
SPC 1600	3	CHM 2046	3	
CHM 2045C	4	CHM 2046L	1	
CGS 2100CC	3	ANT 2000 <i>or</i> SYG 2000 3		
		<i>or</i> PSY 2012		
		STA 2023	3	

Sophomore Year		16 hrs	Spring	17 hrs
Fall				
POS 2041 <i>or</i> ECO 2013	3	CHM 2211	3	
CHM 2210	3	CHM 2211L	2	
ZOO 3733C	4	MCB 3020C	5	
EUH 2000 <i>or</i> HUM 2210	3	PCB 3703C	4	
<i>or</i> AMH 2010		EUH 2001 <i>or</i>	3	
MUL 2010 <i>or</i> THE 2000	3	HUM 2230 <i>or</i>		
<i>or</i> REL 2300 <i>or</i> PHI 2010		AMH 2020		

Junior Year		13 hrs	Spring	16 hrs
Fall				
MLS 3220C	3	MLS 3305/L/3/1		
MLS 4625/L	3/1	MLS 4630	3	
PCB 3233/L	3/1	MLS 4460C	5	
MLS 4430C	2	MLS 4550	4	
Summer	6 hrs			
CGS 1060	3			
MLS 4334	3			

Senior Year		16 hrs	Spring	12 hrs
Fall				
MLS 4830C	4	MLS 4912	1	
MLS 4831C	4	MLS 4505C	3	
MLS 4832C	4	MLS 4933	1	
MLS 4833C	4	MLS 3705	3	
		BSC 3403C	4	

MODERN LANGUAGE COMBINATION (B.A.)

College of Arts and Humanities

Department of Modern Languages & Literature, CNH 523

<http://www.cas.ucf.edu/forlang/>

E-mail: modernlanguages@ucf.edu

Contact: P. Giordano, 407-823-2472

Admission Requirements none

Placement in Language courses

- Placement in language courses is based on one year of high school language being equivalent to one semester of college work. Students must consult an advisor.
- Native speakers or students who have received advanced education abroad must substitute select classes.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Language combinations may consist of French, German or Spanish as a first language and any of those three as a second language, as well as Italian.
- 24 credits in the first language and 15 credits in the second must be taken at the 3000 level or above.
- At least 33 hours must be taken in Modern Language courses

UCF Degree Programs

taught in the target language.

- Students must earn at least a "C" (2.0) in each upper division foreign language course.
- Co-op or internship credit cannot be used in this major
- Departmental Residency Requirement consists of at least 21 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which credit by Examination in literature courses only.
- Students must see their departmental advisor for counseling and schedule approval before registering.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - Prefer CGS 1060C Intro to Computer Sci or STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (0-14 hrs)

Completion of Intermediate level of proficiency.

3. Core requirements-first language (24 hrs)

- a. Composition (select one) 3 hrs
 - SPN 3420* Spanish Composition
 - FRE 3420* French Composition
 - FRE 4422* Advanced French Composition
 - GER 3420* German Composition
- b. Oral Communication (select one) 3 hrs
 - SPN 3760* Adv Spanish Oral Communication
 - FRE 3760* Adv French Oral Communication
 - FRE 4421* Adv French Conversation
 - GER 3760* Adv German Oral Communication
- * A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.
- c. Literature (select one sequence) 6 hrs
 - SPW 3100 & 3101 Survey of Spanish Literature
 - SPW 3130 & 3131 Survey of Latin American Literature
 - FRW 3100 & 3101 Survey of French Literature
 - GEW 3100 & 3101 Survey of German Literature
- d. Linguistics (select one) 3 hrs
 - FRE 3780 French Phonetics and Diction
 - FOL 3730 Romance Philology
 - GER 3780 German Phonetics and Diction
 - SPN 4801 Spanish Morphosyntax
 - SPN 4800 Spanish American Syntax
 - SPN 4780 Spanish Phonetics
- e. Restricted Electives in the first language (chosen with departmental advisor) 9 hrs

4. Core requirements-second language (15 hrs)

- (French, German, Spanish, or Italian)
- a. Composition (select one) 3 hrs
 - SPN 3420, FRE 3420, GER 3420, ITA 3420
- b. Advanced Oral Communication (select one) 3 hrs
 - SPN 3760, FRE 3760, GER 3760, or ITA 3760
- c. Restricted Electives in the second language (chosen with departmental advisor) 9 hrs

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 39 hrs of upper division Modern Language courses
- Students are required to satisfactorily complete a departmental exit exam (primary track)
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)

Admission: Met by Graduation requirements.

Graduation: Met by degree program requirements (four semesters or proficiency).

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: French, Spanish

Related Minors: French, German, Italian, Judaic Studies, Latin American Area Studies, Spanish

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring	
BSC 1005* req# 1E2-GEP	3 ENC 1102 Composition II	3
ENC 1101 Composition I	3 MUL 2010* req# 1B2-GEP	3
AMH 2010* req# 1B1-GEP	3 POS 2041* req# 1D1-GEP	3
MGF 1106* req# 1C1-GEP	3 STA 1060C* req# 1C2-GEP	3
SPN 1120* req# 2-CPP	4 SPN 1121* req# 2-CPP	4

Sophomore Year

Fall	Spring	
ANT 2000* req# 1D2-GEP	3 REL 2300* req# 1B3-GEP	3
PSC 1121* req# 1E1-GEP	3 SPN3234* req# 2-CPP	3
COM 1000* req# 1A3-GEP	3 Elective* Check restrictions	2
SPN 2200* req# 2-CPP	3 Elective* Check restrictions	3
FRE 1120* req# Lang/Elect	4 FRE 1121* req# Lang/Elect	4

Junior Year

Fall	Spring	
SPN 3420* req# 3a-Core1	3 SPW 3101* req# 3c-Core1	3
SPN 3760* req# 3b-Core1	3 FRE 3420* req# 4a-Core2	3
SPN 3300* req# 3e-Core1	3 FRE 3760* req# 4b-Core2	3
Elective* Check restrictions	3 Elective* Check restrictions	3
FRE 2200* req# Lang/Elect	3 Elective* Check restrictions	3

Senior Year

Fall	Spring	
SPW 3100* req# 3c-Core1	3 SPN 4780* req# 3d-Core1	3
SPN 4410* req# 3e-Core1	3 SPN 4421* req# 3e-Core1	3
FRE 4421* req# 4c-Core2	3 FRE 4422* req# 4c-Core2	3
FRW 3100* req# 4c-Core2	3 Elective* Check restrictions	3
Elective* Check restrictions	3	

MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)

Burnett College of Biomedical Sciences

Molecular Biology and Microbiology Department

HPA2 335, 407-823-5932

<http://www.biomed.ucf.edu>

Chair: P.E. Kolattukudy

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System

■ Students should consult with a departmental advisor

1. UCF General Education Program (38+2 - 3hrs)

(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

- A. Communication Foundations
 - Select ENC 1101, ENC 1102 6 hrs
 - Prefer SPC 1016 Tech Presentations 3 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations
 - Select MAC 2311 *or* MAC 2253 3-4 hrs
 - Select STA 2023 *or* CGS 1060C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
 - Select BSC 2010C 4 hrs
 - Select CHM 2045C 4 hrs

2. Common Program Prerequisites (16 hrs)

- BSC 2010C Biology I GEP
- BSC 2011C* Biology II 4 hrs
- CHM 2045C**, 2046, General Chemistry I, II, + Lab 2046L GEP, 4 hrs
- CHM 2210, 2211, Organic Chemistry I, II, + Lab 2211L 8 hrs
- MAC 2311 Calculus with Analytical Geometry I GEP

3. Core Requirements (33 hrs)

- Life Sciences**
 - MCB 3020C General Microbiology 5 hrs
 - MCB 4414 Microbial Metabolism 3 hrs
 - PCB 4239, 3233L Molecular Immunology + Immunology Lab 4 hrs
 - PCB 3522, 4524 Molecular Biology I, II 6 hrs
 - BSC 3403C Quantitative Biological Methods 4 hrs
- Chemistry**
 - BCH 4053 Biochemistry I 3 hrs
- Physics*****
 - PHY 2053C, 2054C College Physics I, II 8 hrs
 - or PHY 2048, 2049 Physics for Scientists and Engineers I, II
 - Math***, Statistics, Computer
 - MAC 2311 *or* MAC 2253 GEP
 - STA 2023 *or* CGS 1060C GEP

*May be substituted by BSC 3403C
**or CHM 2040C, 2041C

***Those students interested in pursuing graduate education are strongly advised to select the following courses: Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Applied Calculus I & II (MAC 2253, 2254) or Calculus with Analytic Geometry I & II (MAC 2311, 2312).

4. Upper Division Restricted Elective (7 courses minimum)

(Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Only three hours of Honors thesis will count towards restrictive elective requirement.)

- *BCH 4054 Biochemistry II 3 hrs
- BCH 4103L Biochemical Methods 2 hrs
- *MCB 3203, 3203L Pathogenic Microbiology + Lab 4 hrs
- *MCB 3404 Bacterial Genetics and Physiology 3 hrs
- MCB 4114C Microbial Systematics and Diagnostics 4 hrs
- *MCB 4203 Infectious Process 3 hrs
- *MCB 4312 Molecular Biotechnology 3 hrs
- *MCB 4503C Virology 3 hrs
- MCB 4603 Environmental Microbiology 3 hrs
- MCB 4721C Methods in Biotechnology 4 hrs
- MCB 4970H Honors Thesis 3 hrs
- MCB 4204 Cellular Microbiology 3 hrs
- *MCB 4276 Epidemiology of Infectious Diseases 3 hrs
- MCB 4721 Methods in Biotechnology 4 hrs
- *MCB 5225 Molecular Biology of Disease 3 hrs
- MCB 5932 Current Topics in Molecular Biology 3 hrs
- MCB 5654 Applied Microbiology 3 hrs
- MLS 3220C Clinical Microscopy with lab 3 hrs
- *MLS 3305 Hematology 3 hrs
- *MLS 4334 Hemostasis 3 hrs
- *MLS 4430C Clinical Parasitology 2 hrs
- *MLS 4505C Immunodiagnosics 3 hrs
- MLS 4625 Advanced Clinical Chemistry I 3 hrs
- MLS 4630 Advanced Clinical Chemistry II 3 hrs
- *PCB 3063 Genetics 3 hrs
- *PCB 3703C Human Physiology 4 hrs
- PCB 4174 Foundations of Bio-imaging 3 hrs
- PCB 4251 Tissue Engineering 3 hrs
- *PCB 4805 Endocrinology 3 hrs

- PCB 4529 Experimental Molecular Biology 3 hrs
- PCB 5275 Signal Transduction Mechanisms 3 hrs
- *PCB 5238 Immunobiology 4 hrs
- PCB 5239 Tumor Biology 3 hrs
- *PCB 4514 Genetics II 3 hrs
- *PCB 4026 Molecular and Cellular Pharmacology 3 hrs
- *ZOO 3701C Human Gross Anatomy 3 hrs
- *ZOO 3733C Human Anatomy 4 hrs
- *ZOO 4603C Vertebrate Embryology 5 hrs
- *ZOO 3744 Neurobiology 3 hrs
- *ZOO 4704C Clinical Neuroanatomy & Neuroscience 4 hrs
- *ZOO 4753C Vertebrate Histology 4 hrs
- ZOO 5745C Essentials of Neuroanatomy 4 hrs
- *ZOO 4605 Human Clinical Embryology 3 hrs

*Recommended for Preprofessional students

5. Departmental Exit Requirements

- A student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- Independent study, directed research, or similar credit may not be used as a Restricted Elective
- A minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to pass a comprehensive test during their last semester

6. Electives (variable)

Students are encouraged to participate in undergraduate research if interested in pursuing graduate or professional education.

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Biology, Biotechnology, Chemistry, Medical Laboratory Sciences

Related Minors: Biology, Chemistry

Transfer Notes:

Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University's requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level **must** take an additional 8 eight hours of upper division coursework at UCF.

Honors in the Major

- Application and admission through the department and THC
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H "Quantitative Biological Methods" with a grade of B or better (4 credits)
- Complete MCB 4970H "Honors Thesis" with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits)

Tentative Course Schedule for Entering Freshmen

UCF Degree Programs

Freshman Year

Fall	13 hrs	Spring	16 hrs
ENC 1101	3	ENC 1102	3
PSY 2012 or SYG 2000	3	CHM 2046	3
or ANT 2000		CHM 2046L	1
CHM 2045C	4	MAC 1114	3
MAC 1105	3	BSC 2010C	4
		SLS 2311C*	2
		(Preprofessional)	

Sophomore Year

Fall	14/15 hrs	Spring	15 hrs
CHM 2210	3	CHM 2211	3
MCB3020C	5	CHM 2211L	2
MAC 2311* or MAC 2253	4/3	STAT 2023	3
EUH 2000 or AMH 2010		or CGS 1060C	
or WOH 2012 or HUM 2210	3	BSC 3403C	4
		EUH 2001	3
		or AMH 2020	
		or HUM 2230 or WOH 2022	

Plan your required 9 summer hours into your course of study

Junior Year

Fall	17 hrs	Spring	16 hrs
PCB 3522	3	PCB 4524	3
Restrictive Elective	3	PCB 4239 & PCB 3233L	4
PHY 2053C	4	PHY 2054C	4
or PHY 2048*, 2048L		or PHY 2049*, 2049L	
BSC 2011C**	4	SPC 1600*	3
ECO 2013 or POS 2041	3	or SPC 1016	
		*recommend SPC 1016	
		Restrictive Elective	2

*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.

**Or BSC 3403C

Senior Year

Fall	15/16 hrs	Spring	12/15 hrs
BCH 4053	3	MCB 4414	3
Restrictive Elective	3/4	Restrictive Elective	3/4
Restrictive Elective	3	Restrictive Elective	3/4
Restrictive Elective	3/4	Restrictive Elective	3/4
Cultural/Historical	3		

MOLECULAR BIOLOGY AND MICROBIOLOGY- PREPROFESSIONAL CONCENTRATION (B.S.)

Burnett College of Biomedical Sciences

HPA2 335, 407-823-5932

<http://www.biomed.ucf.edu>

Chair: P.E. Kolattukudy

Students desiring admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) will meet all the admission requirements for those programs while obtaining a Molecular Biology and Microbiology degree.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor and the Pre-health Advisement Office in HPA I 124.

1. UCF General Education Program (36+ 2-3 hrs)

(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations

Select ENC 1101, ENC 1102	6 hrs
Prefer SPC 1016 Tech Presentations	3 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	3-4 hrs
Select STA 2023 or CGS 1060C	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
Select BSC 2010C	4 hrs
Select CHM 2045C	4 hrs

2. Common Program Prerequisites (16 hrs)

BSC 2010C	Biology I	GEP
BSC 2011C*	Biology II	4 hrs
CHM 2045C**, 2046, 2046L	General Chemistry I, II, + Lab	GEP, 4 hrs
CHM 2210, 2211, 2211L	Organic Chemistry I, II, + Lab	8 hrs
MAC 2311	Calculus with Analytical Geometry I	GEP

3. Core Requirements (35 hrs)

Life Sciences		
MCB 3020C	General Microbiology	5 hrs
MCB 4414	Microbial Metabolism	3 hrs
PCB 4239, 3233L	Molecular Immunology + Immunology Lab	4 hrs
PCB 3522, 4524	Molecular Biology I, II	6 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs
SLS 2311C	Selected Medical Careers	2 hrs

Chemistry BCH 4053 Biochemistry I 3 hrs

Physics PHY 2053C, 2054C College Physics I, II 8 hrs

or PHY 2048, 2049 Physics for Scientists and Engineers I, II

Math, Statistics, Computer MAC 2311 or MAC 2253 GEP

STA 2023 or CGS 1060C GEP

*May be substituted by BSC 3403C

**Or CHM 2040C, 2041C

4. Upper Division Restricted Electives (7 courses minimum)

(Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Only three hours of Honors thesis will count towards restrictive elective requirement.)

Students in the preprofessional concentration of the Molecular Biology and Microbiology program are *recommended* to choose from the following restricted electives:

BCH 4054	Biochemistry II	3 hrs
MCB 3203, 3203L	Pathogenic Microbiology + Lab	4 hrs
PCB 3063	Genetics	3 hrs
MCB 4312	Molecular Biotechnology	3 hrs
MCB 4503C	Virology	3 hrs
MCB 4970H	Honors Thesis	3 hrs
MCB 4203	Infectious Process	3 hrs
MCB 5225	Molecular Biology of Disease	3 hrs
MCB 3404	Bacterial Genetics and Physiology	3 hrs
MCB 4276	Epidemiology of Infectious Diseases	3 hrs
MLS 3305	Hematology	3 hrs
MLS 4334	Hemostasis	3 hrs
MLS 4430C	Clinical Parasitology	2 hrs
MLS 4505C	Immunodiagnosics	3 hrs
PCB 3703C	Human Physiology	4 hrs
PCB 4514	Genetics II	3 hrs
PCB 4026	Molecular and Cellular Pharmacology	3 hrs
PCB 4805	Endocrinology	3 hrs
PCB 5238	Immunobiology	3 hrs
ZOO 3701C	Human Gross Anatomy	2 hrs
ZOO 3733C	Human Anatomy	4 hrs
ZOO 4603C	Vertebrate Embryology	5 hrs
ZOO 4704C	Clinical Neuroanatomy and Neuroscience	4 hrs
ZOO 3744	Neurobiology	3 hrs
ZOO 4753C	Vertebrate Histology	4 hrs
ZOO 4605	Human Clinical Embryology	3 hrs

5. Departmental Exit Requirements

- Student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- Study, directed research, or similar credit may not be used as a Restricted Elective
- Minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to pass a comprehensive test during their last semester

6. Electives (variable)

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

Restricted Elective	3	Restricted Elective	3/4
Restricted Elective	3/4	Restricted Elective	3/4
Cultural/Historical	3		

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Biology, Biotechnology, Chemistry, Medical Laboratory Sciences

Related Minors: Biology, Chemistry

Transfer Notes:

Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University's requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 eight hours of upper division coursework at UCF.

Honors in the Major

- Application and admission through the department and the Burnett Honors College
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H "Quantitative Biological Methods" with a grade of B or better (4 credits)
- Complete MCB 4970H "Honors Thesis" with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits)

Tentative Course Schedule for Entering Freshmen

Freshman Year			
Fall	13 hrs	Spring	16 hrs
ENC 1101		3 ENC 1102	3
PSY 2012 <i>or</i> SYG 2000		3 SLS 2311C	2
<i>or</i> ANT 2000		CHM 2046	3
CHM 2045C		4 CHM 2046L	1
MAC 1105 <i>or</i> elective		3 BSC 2010C	4
		MAC 1114 <i>or</i> elective	3

Sophomore Year			
Fall	14/15 hrs	Spring	15 hrs
CHM 2210		3 CHM 2211	3
MCB3020C		5 CHM 2211L	2
MAC 2311* <i>or</i> MAC 2253		4/3 STAT 2023 <i>or</i> CGS 1060C	3
EUH 2000 <i>or</i> AMH 2010		BSC 3403C	4
<i>or</i> WOH 2012 <i>or</i> HUM 2210		3 EUH 2001 <i>or</i> AMH 2020	3
		<i>or</i> HUM 2230 <i>or</i> WOH 2022	

Plan your required 9 summer hours into your course of study

Junior Year			
Fall	17 hrs	Spring	16/hrs
PCB 3522		3 PCB 4524	3
Restricted Elective		3 PCB4239 + PCB 3233L	4
PHY 2053C <i>or</i> PHY 2048*,		4 PHY 2054C	4
2048L		<i>or</i> PHY2049*, 2049L	
BSC 2011C**		4 SPC 1600* <i>or</i> SPC 1016	3
ECO 2013 <i>or</i> POS 2041		3 *recommend SPC 1016	
		Restricted Elective	2

**Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.*

**Or equivalent

Senior Year			
Fall	15/16 hrs	Spring	12/16 hrs
BCH 4053		3 MCB 4414	3
Restricted Elective		3 Restricted Elective	3/4

MOLECULAR BIOLOGY AND MICROBIOLOGY-UCF/USF Accelerated Medical School Program (B.S.) (See "Accelerated Programs")

MOTION PICTURE TECHNOLOGY (See Film)

MUSIC (B.A.)

**College of Arts and Humanities
Department of Music, CNH 205A**

<http://www.music.ucf.edu>

Contact: Eugene Montague, 407-823-1145,
E-mail: emontagu@mail.ucf.edu

Requirements for Admission

- Each student must either complete and pass an interview with the B.A. advisor or the Department Chair or complete an audition that demonstrates satisfactory proficiency
- Memorization is required for pianists and vocalists
- Accompanists are provided for vocalists only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- Please see the UCF Music Department website for additional audition requirements

Degree Requirements

- Prior to attending the first music class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department
- Each student must complete a faculty approved capstone project.
- Co-op or internship credit cannot be used in this major
- Students should consult with a departmental advisor for course selections
- Courses designated in 1 (General Education Program) are usually spread over the full four years
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
(see General Education Program for detailed information)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| Select ENC 1101 and ENC 1102 | |
| Prefer SPC 1600 | |
| B. Cultural and Historical Foundations | |
| Select one course from 1.B.1 list | 3 hrs |
| Select MUH 3212 History and Literature II | 3 hrs |
| Select one course from 1.B.1 or 1.B.2 list | 3 hrs |
| C. Mathematical Foundations | |
| Prefer MGF 1106 Finite Mathematics | 3 hrs |
| (may substitute a higher level math) | |
| Prefer STA 1060C Statistics Using Excel | 3 hrs |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites (28 hrs)

- | | | |
|----------|-----------------------------------|-------|
| MUT 1121 | Music Theory and Musicianship I | 4 hrs |
| MUT 1122 | Music Theory and Musicianship II | 4 hrs |
| MUT 2126 | Music Theory and Musicianship III | 4 hrs |
| MUT 2127 | Music Theory and Musicianship IV | 4 hrs |
| MUN XXXX | Ensembles | 4 hrs |
| MVX XXXX | Performance | 4 hrs |
| MVK 1111 | Class Piano I | 1 hr |
| MVK 1112 | Class Piano II | 1 hr |
| MVK 2121 | Class Piano III | 1 hr |

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MVK 2122	Class Piano IV	1 hr
3. Core Requirements		(12 hrs)
MUL 2014	Introduction to Music Literature	3 hrs
MUS 2360C	Introduction to Music Technology	3 hrs
MUS 1010	Music Forum (four semesters)	0 hrs
MUT 3571	20th Century Musical Analysis	3 hrs
MUH 3211	Music History & Literature I	3 hrs
MUH 3212	Music History & Literature II	GEP

4. Restricted Electives-Music (12-16 hrs)
Choose from any MUX 3XXX or 4XXX (No more than 6 of these credits can be taken as MUN courses.)

5. Restricted Electives-Non-Music (18 hrs)
Select primarily from upper-level courses that form a coherent progression within a single or two related departments. The completion of a minor is strongly encouraged.

6. Electives (3-11 hrs)
Select primarily from upper-level courses

7. Departmental Exit Requirements (3 hrs)

- MUS 4900 Capstone/Senior Thesis Project 3 hrs
- Earn a grade of "C" (2.0) or better in each Music course

8. Foreign Language Requirements (0-8 hrs)
Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Proficiency equivalent to two semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Music Education, Music (BM), Theatre, Musical Theatre

Related Minors: Music, Theatre

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

Example given shows a student majoring in B.A. in Music. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Freshman Year	
Fall	Spring
ENC 1101 Composition I (GEP A.1.) 3	ENC 1102 Composition II (GEP A. 2.) 3
MUT 1121 Music Theory and Musicianship I 4	MUT 1122 Music Theory and Musicianship II 4
MUN XXXX Ensemble 1	MUN XXXX Ensemble 1
MXV 141X Performance I 2	MXV 141X Performance I 2
MVK 1111 Class Piano I 1	MVK 1112 Class Piano II 1
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3	MUS 2360C Intro to Music Technology 3
	GEP E.1. Science Foundation 3
	14
Sophomore Year	
Fall	Spring
SPC 1600 Fundamentals Oral Comm (GEPA.3) 3	GEP B.1. Cultural & Historical Foundation 3
MUT 2126 Music Theory and Musicianship III 4	MUT 2127 Music Theory and Musicianship IV 4
MUN XXXX Ensemble 1	MUN XXXX Ensemble 1
Non-Music Restricted Elective 3	Non-Music Restricted Elective 3

MVK 2122 Class Piano IV 1	MUS 1010 Music Forum 0	MGF 1106 Finite Mathematics (GEP C.1.) 3	15
MUS 1010 Music Forum 0	STA 1060C Basic Statistics MS Excel (GEP C.2.) 3		15

Junior Year

Fall	Spring
GEP B.2. Cultural & Historical Foundation 3	MUX 3/4XXX Music Restricted Elective 3
MUH 3211 Music History and Literature I 3	MUH 3212 Music History and Literature II GEP Elective 3
MUT 3571 20th Century Musical Analysis 3	MUX 3/4XXX Music Restricted Elective 3
MUX 3/4XXX Music Restricted Elective 3	Non-Music Restricted Elective 3
Non-Music Restricted Elective 3	
15	15

Senior Year

Fall	Spring
GEP D.1. Social Foundation 3	GEP D.2. Social Foundation 3
Non-Music Restricted Elective 3	Non-Music Restricted Elective 3
MUX 3/4XXX Music Restricted Elective 3	MUS 4900 Capstone Project 3
GEP E.2. Science Foundation 3	1121 Foreign Language 4
1120 Foreign Language 4	
16	13

MUSIC EDUCATION (B.M.E.)

College of Arts and Humanities

Department of Music, CNH 205A

<http://www.music.ucf.edu>

E-mail: musicaud@mail.ucf.edu

Contact: A. Holcomb, 407-823-4180, Fax 407-823-3378,
E-mail: aholcomb@mail.ucf.edu

Admission Requirements - Music Education

- Audition. To be accepted into Music Education, a student must demonstrate advanced proficiency by performing compositions representing a variety of musical periods (baroque, classical, romantic, contemporary).
- Memorization is required for pianists and vocalists.
- Accompanists are provided for vocalists only.
- Each candidate must bring his/her own audition music.
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions.
- The audition will serve as a placement exam for accepted candidates.
- Refer to the UCF Music Department website for specific audition requirements.
- Prior to attending the first music class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Interview. In addition to a performance audition, students must successfully complete an interview with Music Education faculty.

Admission Requirements – Professional Program

- Application into the Professional Program must be made at the conclusion of 45 hours of course work. Students must complete a formal application for the Professional Program. (Deadlines: February 15 for fall semester admission and September 15 for spring semester admission). Transfers may be admitted on an individual basis at the discretion of the Music Education faculty. To apply for the Music Education Professional Program, students must:
 - Complete 45 hours of coursework including: 15 hours of General Education Program courses, EDF 2005, Music Theory and Musicianship III, first semester of Performance II.
 - Have a minimum overall GPA of 2.5 and a grade of "C" (2.0) or better in each performance, education, and music education course.
 - Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) or the General Knowledge Test of the Florida Teacher Competency Examination.
 - Provide satisfactory documentation and reflection on 15 hours of field experiences (See Music Education Coordinator for more information).

To be accepted into the Music Education Professional Program students must:

- Complete Class Piano IV, MUT 2127 Music Theory and Musicianship IV, two semesters of Performance II.

- Demonstrate proficiency with aural skills (including the ability to match pitch with the voice) and communication skills (including the ability to write and speak effectively).

Notes:

- (1) Students may not enroll in Performance III or Professional Program courses unless all requirements for admission are satisfied.
- (2) Students who change degree programs and select this major must adopt the most current catalog.
- (3) Common program prerequisites are subject to revision based on changes in Section 1004.04, Florida Statutes, Public Accountability and State Approval for Teacher Preparation Programs, and State Board of Education Rule 6A-5.5.066, Approval of Pre-service Teacher Preparation Programs.

Degree Requirements

1. UCF General Education Program (36 hrs)

(see General Education Program for detailed information)

A. Communication Foundations	9 hrs
Select ENC 1101 and ENC 1102	
Prefer SPC 1600	
B. Cultural and Historical Foundations	
Select one course from 1.B.1 list	3 hrs
Select MUH 3212 History and Literature II	3 hrs
Select one course from 1.B.1 or 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (38 hrs)

EDF 2005	Introduction to Education	3 hrs
EME 2040	Technology for Educators	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
MUN XXXX	Major Ensembles (4 semesters)	4 hrs
MUS 1010	Music Forum (4 semesters)	0 hrs
MUT 1121	Music Theory and Musicianship I	4 hrs
MUT 1122	Music Theory and Musicianship II	4 hrs
MUT 2126	Music Theory and Musicianship III	4 hrs
MUT 2127	Music Theory and Musicianship IV	4 hrs
MVK 2122	Class Piano IV	1 hr
MXV 141X	Performance I (2 semesters)	4 hrs
MXV 242X	Performance II (2 semesters)	4 hrs

3. Music Core Requirements (0 hrs)

MUN XXXX	Major Ensembles (4 semesters)	CPP
MUS 1010	Music Forum (6 semesters)	CPP
MUT 1121	Music Theory and Musicianship I	CPP
MUT 2126	Music Theory and Musicianship III	CPP
MUT 2127	Music Theory and Musicianship IV	CPP
MVK 2122	Class Piano IV	CPP
MXV 141X	Performance I (2 semesters)	CPP
MXV 242X	Performance II (2 semesters)	CPP

4. Music Education Prerequisites (22 hrs)

MUN XXXX	Major Ensembles (2 semesters)	2 hrs
MXV 343X	Performance III (2 semesters)	4 hrs
MUG 3104	Basic Conducting	2 hrs
MUL 2014	Introduction to Music Literature	3 hrs
MUH 3211	Music History & Literature I	3 hrs
MUH 3212	Music History & Literature II	GEP
ESE 3940	Internship I	3 hrs
MUE 4311	Elementary School Music Methods	2 hrs
MUE 3333	Music Learning Theory and Assessment	3 hrs

5. Education Core (12 hrs)

EDG 4410	Teaching Strategies and Classroom Mgmt.	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students	3 hrs
EDF 4603	Critical Analysis of Ethical, Legal and School Safety Issues	3 hrs
RED 4043	Content Reading K-12	3 hrs

6. Music Education Specialty Area Courses and Professional Program Courses (26 hrs)

(Professional Program Courses Denoted by *)

Complete one program:

Program A – Instrumental		
MUE 2346	Vocal Techniques	1 hr
MUG 3302	Instrumental Conduct & Materials*	2 hrs

MUE 4332	Secondary Instrumental Methods I*	3 hrs
MUE 4335 <i>or</i>	Secondary Instrumental Methods II* <i>or</i>	3 hrs
MUE 4441	String Methods*	
MUE 4394	Seminar in Music Teaching*	1 hr
ESE 4943	Internship II*	11 hrs
Choose 5:		
MUE 2450	Woodwind Techniques I	1 hr
MUE 3451	Woodwind Techniques II	1 hr
MUE 2460	Brass Techniques	1 hr
MUE 3461	Brass Techniques II	1 hr
MUE 2470	Percussion Techniques I	1 hr
MUE 2471	Percussion Techniques II	1 hr
MUE 2440	String Techniques	1 hr

Program B – Choral

MUS 1250	IPA for Singers	1 hr
MUG 3202	Choral Conduct & Materials*	2 hrs
MVV 4640	Vocal Pedagogy and Literature	2 hrs
MUE 4331	Secondary Choral Methods I*	3 hrs
MUE 4337	Secondary Choral Methods II*	3 hrs
MUE 4394	Seminar in Teaching Music*	1 hr
ESE 4943	Internship II*	11 hrs

Choose 3:

MUE 2450	Woodwind Techniques I	1 hr
MUE 3451	Woodwind Techniques II	1 hr
MUE 2460	Brass Techniques I	1 hr
MUE 3461	Brass Techniques II	1 hr
MUE 2470	Percussion Techniques I	1 hr
MUE 2471	Percussion Techniques II	1 hr
MUE 2440	String Techniques	1 hr

Program C – Elementary School

MUE 2346	Vocal Techniques	1 hr
MUE 4393	Music and Students with Special Needs	2 hrs
MUG 3X02	Choral or Instrumental Conducting and Materials*	2 hrs
MUE 3353	General Music Literature and Techniques*	2 hrs
MUE 4331	Secondary Choral Methods I*	3 hrs
MUE 4394	Seminar in Teaching Music*	1 hr
ESE 4943	Internship II*	11 hrs

Choose 4:

MUE 2450	Woodwind Techniques I	1 hr
MUE 3451	Woodwind Techniques II	1 hr
MUE 2460	Brass Techniques I	1 hr
MUE 3461	Brass Techniques II	1 hr
MUE 2470	Percussion Techniques I	1 hr
MUE 2471	Percussion Techniques II	1 hr
MUE 2440	String Techniques	1 hr

7. Internship

Admission to Internship I will be granted to students who meet the following requirements:

- Have on file passing scores on all 4 parts of the Florida Teacher Certification General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers will be accepted).
- Possess minimum overall GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a "C" or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I online (Deadlines: February 15 for fall semester and September 15 for spring semester)
- Current enrollment in or completion of Performance III (first semester)
- Completion of Music Education prerequisites and Education Core Requirements
- Completion of 30 semester hours of General Education and Common Program courses
- Completion of all Specialty Area courses except Secondary Methods II (MUE 433X), Seminar in Music Teaching (MUE 4394) and Internship II (ESE 4943)

Admission to Internship II will be granted to students who meet the following requirements:

- Completion of all admission requirements for Internship I (see above)
- Completion of Performance III and any associated recital (students may not perform a recital during Internship II)
- Completion of all music methods and techniques courses
- Completion of all General Education and Common Program courses

UCF Degree Programs

Internship I: Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator. During the semester, students spend two full days per week (Tuesday and Thursday) in assigned schools with half the time in an Elementary setting and half in a Secondary school setting. Students are expected to provide their own transportation to assigned locations.

Internship II: Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator five days a week for the entire semester, normally during the student's last semester. Students are permitted to enroll in other classes only with the consent of the departmental advisor. Students are expected to provide their own transportation to assigned locations.

8. Special Non-Course Requirements

Note: Contact the Music Education Advisor for details.

Students should register to take the General Knowledge Test of the Florida Teaching Certification Examination (FTCE) before the third semester of enrollment at UCF. (See <http://www.firm.edu/doe/sas/ftcehome.htm> for test information).

- Electronic Portfolio. Students will develop an electronic portfolio while enrolled in upper division education courses and internship. The portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices. Consult with the Music Education Advisor for specific information regarding portfolio construction.

Ensemble Participation

- Selected from University Chorus, Women's Chorus, Symphony Orchestra, Concert Band, and Wind Ensemble. Four hours of Jazz Lab or one hour of Marching Band may be used to fulfill Major Ensemble requirements.
- Students whose primary instrument is a wind instrument must audition for Wind Ensemble whenever it is offered.
- Ensemble assignment is by the Ensemble directors in consultation with the applied faculty
- Transfer students must take Major Ensemble during each of their remaining semesters, except when enrolled in Internship II
- Native UCF students must take each Major Ensemble credit in separate semesters
- Students enrolled in a Performance course must concurrently enrolled in an appropriate major ensemble if accepted

Recitals

- Students must complete a faculty-approved public recital (optional for students in the Elementary School Music Specialization). Recitals are normally performed while concurrently enrolled in the second semester of Performance III.

CMENC Membership

- Active participation in CMENC is expected. Students are expected to maintain a record of participation at CMENC events. In addition, students are expected to document attendance at any event that promotes development as a music educator (e.g., music or music education conferences, workshops).

Music Education Forums

- Attendance at all Music Education Forums (except during Internship I and II) is expected

Advising

- Consult with the music education advisor for course selection

Public School Partnerships

- Students are expected to be in K-12 schools each semester. Prior to internship experiences, students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral, instrumental). Students are expected to maintain a record of and reflections on all field experiences as this will be required for the Music Education Proficiency Examination.

9. Departmental Exit Requirements

- Have on file passing scores for the General Knowledge, Professional Education, and Subject Area subtests of the Florida Teacher Certification Examination. (See for specific test information).
- A minimum GPA of 2.5 is required in all courses within the major.

- A grade of "C" (2.0) or better in each performance and music education course.
- Computer competency is met through MUE 3693 Technology in Music Education.
- Departmental Residency Requirement: at least 25 hours must be taken from the UCF Music Department. In addition, music education students must complete their last two semesters of required performance, recital, and Internship II while attending UCF.

10. Foreign Language Requirements (0-8 hrs)

Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits admitted

12. Total Semester Hours Required 134 hrs

Related Programs: Music, Theatre

Related Minors: Music, Theatre

Transfer Notes:

- Students transferring to UCF must pass an audition and interview in order to be accepted into the music education program (See Admissions Requirements above).
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Note: Education majors are required to take six hours (in addition to EDG 2701) that have an international or diversity focus. While native UCF students complete this requirement as part of the GEP, transfer students must take appropriate courses that have been so designated by their previous institution.

Suggested Plan of Study:

Examples given shows a student majoring in Bachelor of Music Education in Instrumental, Choral, and Elementary tracks. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Program A – Instrumental Program K–12

Freshman		Spring	
Fall			
GEP	3	GEP	3
GEP	3	GEP	3
EDF 2005 Introduction to Education	3	MUL 2014 Intro to Music Literature	3
MXV 141X Performance I	2	MXV 141X Performance I	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
MUT 1121 Music Theory & Musicianship	4	MUT 1122 Music Theory & Musicianship	4
MVK 1111 Class Piano I	0	MVK 1112 Class Piano II	0
MUE 2346 Vocal Techniques	1	MUS 1010 Music Forum	0
MUS 1010 Music Forum	0	CMENC/Schools	0
CMENC/Schools	0		
Total	17	Total	16
		Take General Knowledge Test	
Sophomore		Spring	
Fall			
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP	3	MUE XXXX Techniques	1
MUE XXXX Techniques	1	MUE XXXX Techniques	1
MUE XXXX Techniques	1	EDG 2701 Teaching Diverse Populations	3
MUT 2126 Music Theory & Musicianship	4	MUT 2127 Music Theory & Musicianship	4
MVK 2121 Class Piano III	0	MVK 2122 Class Piano IV	1
MUH 3211 Music History and Literature I	3	MUH 3212 Music History and Literature II	3
MXV 242X Performance II	2	MXV 242X Performance II	2

MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
CMENC/Schools	0	CMENC/Schools	0
Total	15	Total	16
Apply for Professional Program			
Junior			
Fall			
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUG 3104 Basic Conducting	2	MUG 3302 Inst Conducting & MS mat	2
MUE 4332 Secondary Instrumental Methods I	3	MUE 4335 Secondary Instrumental Methods II	3
MUE XXX Techniques	1	or MUE 4441 String Methods	3
EDG 4323 Teaching Strategies and Cl. Mgmt.	3	RED 4043 Content Reading	3
EDF 4603 Critical Analysis of Ethical....	3	GEP	3
VMX 343X Performance III	2	EME 2040 Technology for Educators	3
MUN XXXX Ensemble	1	VMX 343X Performance III	2
CMENC/Schools	0	MUN XXXX Ensemble	1
		CMENC/Schools	0
		MUS 3953 Recital Performance I	0
Total	15	Total	17
Senior			
Fall			
ESE 3940 Internship I	3	ESE 4943 Internship II	11
MUE 3333 Music Learning Theory & Assess.	3	MUE 4394 Seminar in Music Teaching	1
GEP	3	GEP	3
MUE 4311 Elem. School Music Methods	2		
TSL 4080 Teaching LEP Children	3		
CMENC	0		
CMENC	0		
Total	14	Total	15
Take PET and Music Examination of FTCE			
Remaining 3 GEP courses taken as part of 9 required summer hours			
Program B – Choral Program K–12			
Freshman			
Fall			
GEP	3	GEP	3
GEP	3	GEP	3
EDF 2005 Introduction to Education	3	MUL 2014 Intro to Music Literature	3
VMX 141X Performance I	2	VMX 141X Performance I	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
MUT 1121 Music Theory & Musicianship	4	MUT 1122 Music Theory & Musicianship	4
MVK 1111 Class Piano I	0	MVK 1112 Class Piano II	0
MUS 1250 IPA for Singers	1	MUS 1010 Music Forum	0
MUS 1010 Music Forum	0	CMENC/Schools	0
CMENC/Schools	0		
Total	17	Total	16
Take General Knowledge Test			
Sophomore			
Fall			
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP	3	MUE XXXX Techniques	1
GEP	3	EDG 2701 Teaching Diverse Populations	3
MUE XXXX Techniques	1	MUT 2127 Music Theory & Musicianship	4
MUT 2126 Music Theory & Musicianship	4	MUT 2127 Music Theory & Musicianship	4
MVK 2121 Class Piano III	0	MVK 2122 Class Piano IV	1
MUH 3211 Music History and Literature I	3	MUH 3212 Music History and Literature II	GEP
VMX 242X Performance II	2	VMX 242X Performance II	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
CMENC/Schools	0	CMENC/Schools	0
GEP	3		
Total	17	Total	15
Apply for Professional Program			
Junior			
Fall			
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUG 3104 Basic Conducting	2	MUG 3X02 Choral or Instrumental Conducting	2
MUE 4311 Elem. School Music Methods	2	MUE 3353 General Music Lit. & Tech.	2
EDG 4323 Teaching Strategies and Cl. Mgmt.	3	RED 4043 Content Reading	3
EDF 4603 Critical Analysis of Ethical....	3	GEP	3
MUE 4393 Music and Students w Special Needs	2	EME 2040 Technology in Education	3
VMX 343X Performance III	2	VMX 343X Performance III	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
GEP	3	MUS 3953 Recital Performance I	0
CMENC/Schools	0	CMENC/Schools	0
Total	15	Total	16
Senior			
Fall			
ESE 3940 Internship I	3	ESE 4943 Internship II	11
MUE 3333 Music Learning Theory & Assess.	3	MUE 4394 Seminar in Music Teaching	1
GEP	3	GEP	3
MUE 4331 Secondary Choral Methods I or	3		
TSL 4080 Teaching LEP Children	3		
CMENC	0	CMENC	0
Total	15	Total	15
Take PET and Music Examination of FTCE			
Remaining 3 GEP courses taken as part of 9 required summer hours			

Take PET and Music Examination of FTCE
 Remaining 3 GEP courses taken as part of 9 required summer hours

Program C – Elementary Program

Freshman			
Fall			
GEP	3	GEP	3
GEP	3	GEP	3
EDF 2005 Introduction to Education	3	MUL 2014 Intro to Music Literature	3
VMX 141X Performance I	2	VMX 141X Performance I	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
MUT 1121 Music Theory & Musicianship	4	MUT 1122 Music Theory & Musicianship	4
MVK 1111 Class Piano I	0	MVK 1112 Class Piano II	0
MUE 2346 Vocal Techniques	1	MUS 1010 Music Forum	0
MUS 1010 Music Forum	0		
CMENC/Schools	0	CMENC/Schools	0
Total	17	Total	16
Take General Knowledge Test			

Sophomore			
Fall			
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP	3	MUE XXXX Techniques	1
GEP	3	EDG 2701 Teaching Diverse Populations	3
MUE XXXX Techniques	1	MUT 2127 Music Theory & Musicianship	4
MUT 2126 Music Theory & Musicianship	4	MUT 2127 Music Theory & Musicianship	4
MVK 2121 Class Piano III	0	MVK 2122 Class Piano IV	1
MUH 3211 Music History and Literature I	3	MUH 3212 Music History and Literature II	GEP
VMX 242X Performance II	2	VMX 242X Performance II	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
MUE XXXX Techniques	1	MUE XXXX Techniques	1
CMENC/Schools	0	CMENC/Schools	0
Total	15	Total	16
Apply for Professional Program			

Junior			
Fall			
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUG 3104 Basic Conducting	2	MUG 3X02 Choral or Instrumental Conducting	2
MUE 4311 Elem. School Music Methods	2	MUE 3353 General Music Lit. & Tech.	2
EDG 4323 Teaching Strategies and Cl. Mgmt.	3	RED 4043 Content Reading	3
EDF 4603 Critical Analysis of Ethical....	3	GEP	3
MUE 4393 Music and Students w Special Needs	2	EME 2040 Technology in Education	3
VMX 343X Performance III	2	VMX 343X Performance III	2
MUN XXXX Ensemble	1	MUN XXXX Ensemble	1
GEP	3	MUS 3953 Recital Performance I	0
CMENC/Schools	0	CMENC/Schools	0
Total	15	Total	16

Senior			
Fall			
ESE 3940 Internship I	3	ESE 4943 Internship II	11
MUE 3333 Music Learning Theory & Assess.	3	MUE 4394 Seminar in Music Teaching	1
GEP	3	GEP	3
MUE 4331 Secondary Choral Methods I or	3		
TSL 4080 Teaching LEP Children	3		
CMENC	0	CMENC	0
Total	15	Total	15
Take PET and Music Examination of FTCE			
Remaining 3 GEP courses taken as part of 9 required summer hours			

MUSIC – JAZZ STUDIES TRACK (B.M.)

College of Arts and Humanities
Department of Music
CNH 205

<http://www.music.ucf.edu/>

E-Mail: musicaud@mail.ucf.edu

Contact: George Weremchuk, 407-823-5261; Fax 407-823-3378,
 E-mail: gweremch@mail.ucf.edu

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided for vocalists only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- Please see the UCF Music Department website for additional

UCF Degree Programs

audition requirements

Professional Sequence Entrance Review

During the fourth semester of applied study, each student will be required to pass the Professional Sequence Entrance Review, which will include the following:

- An evaluation of performance Skills
- Completion of Performance I and II
- Completion of MUS 2360C
- Completion of MUT 2127, Music Theory and Musicianship IV
- Completion of Class Piano IV
- Completion of Jazz Theory I & II
- Overall GPA of at least 2.5, and a GPA for all music courses of at least 3.0.

This review is a pre-requisite for Performance level III.

Degree Requirements

- Prior to attending the first class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department
- Performance students must present two faculty-approved public recitals
- Students should consult with a departmental advisor for course selection
- Courses designated in 1 (General Education Program) are usually completed throughout four years of study

1. UCF General Education Program (36 hrs)

(See General Education program for detailed information)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| Select ENC 1101 and ENC 1102 | |
| Prefer SPC 1600 | |
| B. Cultural and Historical Foundations | |
| Select one course from 1.B.1 list | 3 hrs |
| Select MUL 2016 Evolution of Jazz | 3 hrs |
| Select one course from 1.B.1 or 1.B.2 list | 3 hrs |
| C. Mathematical Foundations | |
| Prefer MGF 1106 Finite Mathematics | 3 hrs |
| (may substitute a higher level math) | |
| Prefer STA 1060C Statistics Using Excel | 3 hrs |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites (24 hrs)

MUT 1121	Music Theory and Musicianship I	4 hrs
MUT 1122	Music Theory and Musicianship II	4 hrs
MUT 2126	Music Theory and Musicianship III	4 hrs
MUT 2127	Music Theory and Musicianship IV	4 hrs
MUN 3713	Jazz Ensemble (four semesters)	4 hrs
MVK 1111	Class Piano I	1 hr
MVK 1112	Class Piano II	1 hr
MVK 2121	Class Piano III	1 hr
MVK 2122	Class Piano IV	1 hr

3. Core Requirements (33 hrs)

MUL 2014	Intro to Music History and Literature	3 hrs
MUS 2360C	Intro to Music Technology	3 hrs
MUS 1010	Music Forum (eight semesters)	0 hrs
MUL 2016	Evolution of Jazz	GEP
MUT 3170	Jazz Theory I	3 hrs
MUT 3171	Jazz Theory II	3 hrs
MUT 3XXX	Jazz Workshop (four semesters)	12 hrs
MUS 4320	Music Business & Industry	3 hrs
MUH 4814	Jazz Styles and Analysis	3 hrs
MUS 3953	Recital Performance I	0 hrs
MUS 4954	Recital Performance II	0 hrs
MUH 3211 or	Music History & Literature I	3 hrs
MUH 3212	Music History & Literature II	3 hrs

4. Specialty Requirements (Choose one): (27 hrs)

Trumpet		
MVB 1411	Trumpet I (two semesters)	4 hrs
MVB 2421	Trumpet II (two semesters)	4 hrs
MVB 3431	Trumpet III (two semesters)	6 hrs
MVB 4441	Trumpet IV (two semesters)	8 hrs
	Restricted Electives*	5 hrs

Trombone

MVB 1413	Trombone I (two semesters)	4 hrs
MVB 2423	Trombone II (two semesters)	4 hrs
MVB 3433	Trombone III (two semesters)	6 hrs
MVB 4443	Trombone IV (two semesters)	8 hrs
	Restricted Electives*	5 hrs

Saxophone

MVB 1415	Saxophone I (two semesters)	4 hrs
MVB 2425	Saxophone II (two semesters)	4 hrs
MVB 3435	Saxophone III (two semesters)	6 hrs
MVB 4445	Saxophone IV (two semesters)	8 hrs
	Restricted Electives*	5 hrs

Jazz Piano

MVJ 1010	Jazz Piano I (two semesters)	4 hrs
MVJ 2220	Jazz Piano II (two semesters)	4 hrs
MVJ 3230	Jazz Piano III (two semesters)	6 hrs
MVJ 4240	Jazz Piano IV (two semesters)	8 hrs
MVK 1211	Secondary (classical) Piano (two semesters)	2 hrs
	Restricted Electives*	3 hrs

Jazz Bass

MVJ 1214	Jazz Bass I (two semesters)	4 hrs
MVJ 2224	Jazz Bass II (two semesters)	4 hrs
MVJ 3234	Jazz Bass III (two semesters)	6 hrs
MVJ 4244	Jazz Bass IV (two semesters)	8 hrs
MVS 1214	Secondary (classical) Bass (two semesters)	2 hrs
	Restricted Electives*	3 hrs

Jazz Guitar

MVJ 1213	Jazz Guitar I (two semesters)	4 hrs
MVJ 2223	Jazz Guitar II (two semesters)	4 hrs
MVJ 3233	Jazz Guitar III (two semesters)	6 hrs
MVJ 4243	Jazz Guitar IV (two semesters)	8 hrs
MVS 1216	Secondary (classical) Guitar (two semesters)	2 hrs
	Restricted Electives*	3 hrs

Jazz Drum Set

MVJ 1219	Jazz Drums I (two semesters)	4 hrs
MVJ 2229	Jazz Drums II (two semesters)	4 hrs
MVJ 3339	Jazz Drums III (two semesters)	6 hrs
MVJ 4349	Jazz Drums IV (two semesters)	8 hrs
MVP 1211	Secondary Percussion	2 hrs
	Restricted Electives*	3 hrs

*Restricted Electives

- Any secondary performance course not in area of major instrument or
- Any MUC, MUE, MUG, MUH, MUL, MUM, MUN, MUO, MUS, MUT, MVX courses numbered 3000 or higher.

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Music course
- Computer Competency met by MUS 2360C, or departmental examination

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Music Education, Music (BA), Theatre

Related Minors: Music, Theatre, Digital Media

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all

supporting information.

Suggested Plan of Study:

Example given shows a student majoring in Jazz Studies. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Program A: Jazz Trumpet, Trombone, Saxophone

Freshman Year

Fall	Spring		
ENC 1101 Composition I	ENC 1102 Composition II	3	3
MUT 1121 Music Theory and Musicianship I	MUT 1122 Music Theory and Musicianship II	4	4
MUN 3713 Jazz Ensemble	MUN 3713 Jazz Ensemble	1	1
MXV 141X Performance I	MXV 141X Performance I	2	2
MVK 1111 Class Piano I	MVK 1112 Class Piano II	1	1
MUS 1010 Music Forum	MUS 1010 Music Forum	0	0
MUL 2014 Intro to Music History and Literature	MUS 2360C Intro to Music Technology	3	3
	GEP E.1. Science Foundation	3	
		14	17

Sophomore Year

Fall	Spring		
SPC 1600 Fundamentals of Oral Communication	GEP B.1. Cultural & Historical Foundation	3	3
MUT 2126 Music Theory and Musicianship III	MUT 2127 Music Theory and Musicianship IV	4	4
MUN 3713 Jazz Ensemble	MUN 3713 Jazz Ensemble	1	1
MXV 242X Performance II	MXV 242X Performance II	2	2
MVK 2121 Class Piano III	MVK 2122 Class Piano IV	1	1
MUT 3170 Jazz Theory I	MUT 3171 Jazz Theory II	3	3
MUS 1010 Music Forum	MUS 1010 Music Forum	0	0
MGF 1106 Finite Mathematics (GEP C.1.)	Professional Sequence Entrance Review	3	
		17	14

Junior Year

Fall	Spring		
GEP B.2. Cultural & Historical Foundation	STA 1060C Basic Statistics MS Excel (GEP C2)	3	3
MUL 2016 Evolution of Jazz	MUH 3211/2 Music History and Literature 1/II	3	3
MUT 3XXX Jazz Workshop	MUT 3XXX Jazz Workshop	3	3
MXV 343X Performance III	MXV 343X Performance III	3	3
MUS 1010 Music Forum	MUS 1010 Music Forum	0	0
MUX 3/4XXX Restricted Electives	MUS 3953 Recital Performance I	3	0
MUX 3XXX Restricted Elective	MUX 3XXX Restricted Elective	1	1
		16	13

Senior Year

Fall	Spring		
GEP D.1. Social Foundation	GEP D.2. Social Foundation	3	3
MXV 444X Performance IV	MXV 444X Performance IV	4	4
MUS 1010 Music Forum	MUS 1010 Music Forum	0	0
MUT 3XXX Jazz Workshop	MUT 3XXX Jazz Workshop	3	3
MUH 4814 Jazz Styles and Analysis	MUS 4320 Music Business & Industry	3	3
GEP E.2. Science Foundation	MUS 4954 Recital Performance II	3	0
		16	13

Program B: Jazz Piano, Guitar, Bass, Drum Set

Freshman Year

Fall	Spring		
ENC 1101 Composition I	ENC 1102 Composition II	3	3
MUT 1121 Music Theory and Musicianship I	MUT 1122 Music Theory and Musicianship II	4	4
MUN 3713 Jazz Ensemble	MUN 3713 Jazz Ensemble	1	1
MXV 1XXX Performance I	MXV 1XXX Performance I	2	2
MXV 121X Secondary Performance	MXV 121X Secondary Performance I	1	1
MVK 1111 Class Piano I	MVK 1112 Class Piano II	1	1
MUS 1010 Music Forum	MUS 1010 Music Forum	0	0
MUL 2014 Intro to Music History and Literature	MUS 2360C Intro to Music Technology	3	3
		15	15

Sophomore Year

Fall	Spring		
SPC 1600 Fundamentals of Oral Communication	GEP B.1. Cultural & Historical Foundation	3	3
MUT 2126 Music Theory and Musicianship III	MUT 2127 Music Theory and Musicianship IV	4	4
MUN 3713 Jazz Ensemble	MUN 3713 Jazz Ensemble	1	1
MXV 2XXX Performance II	MXV 2XXX Performance II	2	2
MVK 2121 Class Piano III	MVK 2122 Class Piano IV	1	1
MUT 3170 Jazz Theory I	MUT 3171 Jazz Theory II	3	3
MUS 1010 Music Forum	MUS 1010 Music Forum	0	0
MGF 1106 Finite Mathematics (GEP C.1.)	Professional Sequence Entrance Review	3	
		17	14

Junior Year

Fall	Spring		
GEP B.2. Cultural & Historical Foundation	STA 1060C Basic Statistics MS Excel (GEP C2)	3	3
MUL 2016 Evolution of Jazz	MUH 3211/2 Music History and Literature 1/II	3	3
MUT 3XXX Jazz Workshop	MUT 3XXX Jazz Workshop	3	3
MXV 3XXX Performance III	MXV 3XXX Performance III	3	3
MUS 1010 Music Forum	MUS 1010 Music Forum	0	0
MUX 3/4XXX Restricted Electives	MUS 3953 Recital Performance I	3	0
	GEP E.1. Science Foundation	3	3
		15	15

Senior Year

Fall	Spring		
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GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MXV 4XXX Performance IV	4	MXV 4XXX Performance III	4
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUT 3XXX Jazz Workshop	3	MUT 3XXX Jazz Workshop	3
MUH 4814 Jazz Styles and Analysis	3	MUS 4320 Music Business & Industry	3
GEP E.2. Science Foundation	3	MUS 4954 Recital Performance II	0
	16		13

MUSIC – MUSIC COMPOSITION TRACK (B.M.)

College of Arts and Humanities

Department of Music

CNH 205, E-Mail: musicaud@mail.ucf.edu

http://www.music.ucf.edu/

Contact: George Weremchuk, 407-823-5261; Fax 407-823-3378,

E-mail: gweremch@mail.ucf.edu

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided for vocalists only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- Please see the UCF Music Department website for additional audition requirements

Professional Sequence Entrance Review

Prospective composition students must audition for and be accepted for either the BA in Music, the BME degree or the Bachelor of Music in Performance or Jazz Studies for their first two years of study. Students will normally be considered for acceptance into the Bachelor of Music in Composition in the fourth semester of study at UCF. Students will be accepted based on the Professional Sequence Entrance Review. Students will be required to pass this evaluation before entering Level III Composition. This review will include:

- Approval of composition portfolio
- Completion of Composition I and II
- Completion of Performance I and II
- Completion of MUS 2360C
- Completion of MUT 2127, Music Theory and Musicianship IV
- Completion of Class Piano IV
- Overall GPA of at least 2.5, and a GPA for all music courses of at least 3.0.

This review is a pre-requisite for Composition III.

Degree Requirements

- Prior to attending the music class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department
- Composition students must present one faculty-approved public recital
- Students should consult with a departmental advisor for course selection
- Courses designated in 1 (General Education Program) are usually completed throughout four years of study

1. UCF General Education Program

(See General Education program for detailed information)

(36 hrs)	
A. Communication Foundations	9 hrs
Select ENC 1101 and ENC 1102	
Prefer SPC 1600	
B. Cultural and Historical Foundations	
Select one course from 1.B.1 list	3 hrs
Select MUH 3212 History and Literature II	3 hrs
Select one course from 1.B.1 or 1.B.2 list	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics	3 hrs

UCF Degree Programs

- (may substitute a higher level math)
 Prefer STA 1060C Statistics Using Excel 3 hrs
 D. Social Foundations 6 hrs
 E. Science Foundations 6 hrs

2. Common Program Prerequisites (32 hrs)

MUT 1121	Music Theory and Musicianship I	4 hrs
MUT 1122	Music Theory and Musicianship II	4 hrs
MUT 2126	Music Theory and Musicianship III	4 hrs
MUT 2127	Music Theory and Musicianship IV	4 hrs
MUN XXXX	Major Ensemble (four semesters)	4 hrs
(Piano students take MUN 3453, guitar students take MUN 3483)		
MXV 141X	Performance I (two semesters)	4 hrs
MXV 242X	Performance II (two semesters)	4 hrs
MVK 1111	Class Piano I	1 hr
MVK 1112	Class Piano II	1 hr
MVK 2121	Class Piano III	1 hr
MVK 2122	Class Piano IV	1 hr

3. Core Requirements (20 hrs)

MUL 2014	Intro to Music History and Literature	3 hrs
MUS 2360C	Intro to Music Technology	3 hrs
MUS 1010	Music Forum (eight semesters)	0 hrs
MUT 3571	20th Century Musical Analysis	3 hrs
MUC 1101C	Composition I	2 hrs
MUC 2104C	Composition II	2 hrs
MUN XXXX	Major Ensembles	2 hrs
(Piano students take MUN 3453, guitar students take MUN 3483)		
MUG 3104	Basic Conducting	2 hrs
MUH 3211	Music History & Literature I	3 hrs
MUH 3212	Music History & Literature II	GEP

4. Professional Sequence Requirements: (32 hrs)

MUC 3105C	Composition III (two semesters)	6 hrs	
MUC 4106C	Composition IV (two semesters)	8 hrs	
MUT 3401	Counterpoint	3 hrs	
MUT 4311	Orchestration	3 hrs	
MUC 4950	Composition Recital	0 hrs	
One course selected from MUC/MUH/MUS/MUT, 3000 level or above			
Restricted Electives*			9 hrs

*Restricted Electives

- Any secondary performance course not in area of major instrument or
- Any MUC, MUE, MUG, MUH, MUL, MUM, MUN, MUO, MUS, MUT, MVX courses numbered 3000 or higher.

5. Special Non-Course Requirements

Major Ensemble Participation

- Selected from University Chorus, Women's Chorus, Symphony Orchestra, Concert Band, Wind Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
- Ensemble assignment is by the Ensemble directors.
- Students must take Major Ensemble during each semester at UCF.
- Students taking a course in Performance must concurrently take a major ensemble appropriate to their principal instrument or voice

Minor Ensemble Participation

- If Minor Ensemble is taken at UCF, the semester hours of credit must be spread over at least two separate semesters
- If Minor Ensemble credits are transferred to UCF, each remaining credit must be taken in a separate semester
- Minor Ensembles include: Brass, Percussion, Piano, Madrigal Singers, Women's Chorus, Opera Workshop, Woodwind, Jazz Ensemble, Jazz Combo, and Early Music Ensemble

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Music course
- Computer Competency met by MUS 2360C, or departmental examination

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Electives (variable)

Select primarily from upper level courses. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Music Education, Music (BA), Theatre

Related Minors: Music, Theatre, Digital Media

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

Example given shows a student majoring in Music Composition. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Freshman Year

Fall	Spring
ENC 1101 Composition I	ENC 1102 Composition II
MUT 1121 Music Theory and Musicianship I	MUT 1122 Music Theory and Musicianship II
MUN XXXX Major Ensemble	MUN XXXX Major Ensemble
MXV 141X Performance I	MXV 141X Performance I
MVK 1111 Class Piano I	MVK 1112 Class Piano II
MUS 1010 Music Forum	MUS 1010 Music Forum
MUL 2014 Intro to Music History and Literature	MUS 2360C Intro to Music Technology
	GEP E.1. Science Foundation
	17

Sophomore Year

Fall	Spring
SPC 1600 Fundamentals of Oral Communication	GEP B.1. Cultural & Historical Foundation
MUT 2126 Music Theory and Musicianship III	MUT 2127 Music Theory and Musicianship IV
MUN XXXX Major Ensemble	MUN XXXX Major Ensemble
MXV 242X Performance II	MXV 242X Performance II
MVK 2121 Class Piano III	MVK 2122 Class Piano IV
MUS 1010 Music Forum	MUS 1010 Music Forum
MUC 1101C Composition I	MUC 2104C Composition II
MUG 3104 Basic Conducting	MGF 1106 Finite Mathematics (GEP C.1.)
	Professional Sequence Entrance Review
	16

Junior Year

Fall	Spring
GEP B.2. Cultural & Historical Foundation	STA 1060C Basic Statistics MS Excel (GEP C.2)
MUH 3211 Music History and Literature I	MUH 3212 Music History and Literature II
MUT 3571 20th Century Musical Analysis	MUT 4311 Orchestration
MUC 3105C Composition III	MUC 3105C Composition III
MUS 1010 Music Forum	MUS 1010 Music Forum
MUX 3/4XXX Restricted Electives	MUN XXXX Major Ensemble
MUN XXXX Major Ensemble	MUH 4XXX Restricted Elective
	16

Senior Year

Fall	Spring
GEP D.1. Social Foundation	GEP D.2. Social Foundation
MUC 4106C Composition IV	MUC 4106C Composition IV
MUS 1010 Music Forum	MUS 1010 Music Forum
MUX 3/4XXX Restricted Electives	MUC 4950 Composition Recital
GEP E.2. Science Foundation	MUX 3/4XXX Restricted Electives
	MUT 3401 Counterpoint
	13

MUSIC – MUSIC PERFORMANCE TRACK (B.M.)

College of Arts and Humanities

Department of Music

CNH 205, E-Mail: musicaud@mail.ucf.edu

<http://www.music.ucf.edu/>

Contact: George Weremchuk, 407-823-5261; Fax 407-823-3378,
 E-mail: gweremch@mail.ucf.edu

Audition Requirements for Admission

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided for vocalists only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- Please see the UCF Music Department website for additional audition requirements

Professional Sequence Entrance Review

During the fourth semester of applied study, each student will be required to pass the Professional Sequence Entrance Review, which will include the following:

- An evaluation of performance skills
- Completion of Performance I and II
- Completion of MUS 2360C
- Completion of MUT 2127, Music Theory and Musicianship IV
- Completion of Class Piano IV
- Overall GPA of at least 2.5, and a GPA for all music courses of at least 3.0.

This review is a pre-requisite for Performance level III.

Degree Requirements

- Prior to attending the first music class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department
- Performance students must present two faculty-approved public recitals
- Students should consult with a departmental advisor for course selection
- Courses designated in 1 (General Education Program) are usually completed throughout four years of study

1. UCF General Education Program (36 hrs)

(See General Education program for detailed information)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| Select ENC 1101 and ENC 1102 | |
| Prefer SPC 1600 | |
| B. Cultural and Historical Foundations | |
| Select one course from 1.B.1 list | 3 hrs |
| Select MUH 3212 History and Literature II | 3 hrs |
| Select one course from 1.B.1 or 1.B.2 list | 3 hrs |
| C. Mathematical Foundations | |
| Prefer MGF 1106 Finite Mathematics | 3 hrs |
| (may substitute a higher level math) | |
| Prefer STA 1060C Statistics Using Excel | 3 hrs |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites (32 hrs)

MUT 1121	Music Theory and Musicianship I	4 hrs
MUT 1122	Music Theory and Musicianship II	4 hrs
MUT 2126	Music Theory and Musicianship III	4 hrs
MUT 2127	Music Theory and Musicianship IV	4 hrs
MUN XXXX	Major Ensemble (four semesters)	4 hrs
(Piano students take	MUN 3453, guitar students take MUN 3483)	
MXV 141X	Performance I (two semesters)	4 hrs
MXV 242X	Performance II (two semesters)	4 hrs
MVK 1111	Class Piano I	1 hr
MVK 1112	Class Piano II	1 hr
MVK 2121	Class Piano III	1 hr
MVK 2122	Class Piano IV	1 hr

3. Core Requirements (30 hrs)

MUL 2014	Intro to Music History and Literature	3 hrs
MUS 2360C	Intro to Music Technology	3 hrs
MUS 1010	Music Forum (eight semesters)	0 hrs
MUT 3571	20th Century Musical Analysis	3 hrs
MXV 343X	Performance III (two semesters)	6 hrs
MXV 444X	Performance IV (two semesters)	8 hrs

MUS 3953	Recital Performance I	0 hrs
MUL 4954	Recital Performance II	0 hrs
MUN XXXX	Major Ensembles	2 hrs
(Piano students take	MUN 3453, guitar students take MUN 3483)	
MUG 3104	Basic Conducting	2 hrs
MUH 3211	Music History & Literature I	3 hrs
MUH 3212	Music History & Literature II	GEP

4. Specialty Requirements (Choose One:) (22 hrs)

Piano		
MUL 3400	Piano Literature I	2 hrs
MUL 3401	Piano Literature II	2 hrs
MVK 4640	Piano Pedagogy I	2 hrs
MUN 3453	Piano Ensemble	2 hrs
Restricted Electives*		9 hrs
Electives		5 hrs
Guitar		
MUL 4437	String Literature and Pedagogy	3 hrs
MUN XXXX	Guitar Ensemble	2 hrs
Restricted Electives*		12 hrs
Electives		5 hrs
Voice		
MUS 1250	IPA for Singers	1 hrs
MUS 3255	German and English Lyric Diction	2 hrs
MUS 3254	Italian and French Lyric Diction	2 hrs
MVW 4640	Voice Pedagogy I	2 hrs
MUL 3602	Song Literature	3 hrs
MUN XXXX	Major Ensembles	2 hrs
MUN XXXX	Minor Ensembles	2 hrs
Restricted Electives*		0 hrs
Foreign Language FRE 1120 and FRE 1121, <i>or</i>		8 hrs
GER 1120 (or GER 1120H) and GER 1121, <i>or</i>		
ITA 1120 and ITA 1121		

Woodwinds		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 4444	Woodwind Literature and Pedagogy	3 hrs
Restricted Electives*		8 hrs
Electives		5 hrs

Brass		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 4443	Brass Literature and Pedagogy	3 hrs
Restricted Electives*		8 hrs
Electives		5 hrs

Percussion		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 3463	Percussion Literature	2 hrs
MVP 3630	Percussion Pedagogy	2 hrs
Restricted Electives*		7 hrs
Electives		5 hrs

Strings		
MUN XXXX	Major Ensemble	2 hrs
MUN XXXX	Minor Ensemble	4 hrs
MUL 4437	String Literature and Pedagogy	3 hrs
Restricted Electives*		8 hrs
Electives		5 hrs

*Restricted Electives 0–12 hrs

- Any secondary performance course not in area of major instrument or
- Any MUC, MUE, MUG, MUH, MUL, MUM, MUN, MUO, MUS, MUT, MVX courses numbered 3000 or higher.

5. Special Non-Course Requirements

Major Ensemble Participation

- Selected from University Chorus, Women's Chorus, Symphony Orchestra, Concert Band, Wind Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
- Ensemble assignment is by the Ensemble directors.
- Students must take Major Ensemble during each semester at UCF.
- Students taking a course in Performance must concurrently take a major ensemble appropriate to their principal instrument or voice

Minor Ensemble Participation

- If Minor Ensemble is taken at UCF, the semester hours of credit must be spread over at least two separate semesters
- If Minor Ensemble credits are transferred to UCF, each remaining credit must be taken in a separate semester
- Minor Ensembles include: Brass, Percussion, Piano, Madrigal

UCF Degree Programs

Singers, Women's Chorus, Opera Workshop, Woodwind, Jazz Ensemble, Jazz Combo, and Early Music Ensemble

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Music course
- Computer Competency met by MUS 2360C, or departmental examination

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Electives (variable)

Select primarily from upper level courses. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Music Education, Music (BA), Theatre

Related Minors: Music, Theatre, Digital Media

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

Example given shows a student majoring in Performance. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Program A: Strings, Woodwinds, Brass

Freshman Year

Fall	Spring
ENC 1101 Composition I (GEP A.1.) 3	ENC 1102 Composition II (GEP A.2.) 3
MUT 1121 Music Theory and Musicianship I 4	MUT 1122 Music Theory and Musicianship II 4
MUN XXXX Major Ensemble 1	MUN XXXX Major Ensemble 1
MXV 141X Performance I 2	MXV 141X Performance I 2
MVK 1111 Class Piano I 1	MVK 1112 Class Piano II 1
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3	MUS 2360C Intro to Music Technology 3
	GEP E.1. Science Foundation 3
	14
	17

Sophomore Year

Fall	Spring
SPC 1600 Fundamentals Oral Comm (GEP A.3.) 3	GEP B.1. Cultural & Historical Foundation 3
MUT 2126 Music Theory and Musicianship III 4	MUT 2127 Music Theory and Musicianship IV 4
MUN XXXX Major Ensemble 1	MUN XXXX Major Ensemble 1
MUN XXXX Minor Ensemble 1	MUN XXXX Minor Ensemble 1
MXV 242X Performance II 2	MXV 242X Performance II 2
MVK 2121 Class Piano III 1	MVK 2122 Class Piano IV 1
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUG 3104 Basic Conducting 2	MGF 1106 Finite Mathematics (GEP C.1.) 3
STA 1060C Basic Statistics MS Excel (GEP C.2.) 3	Professional Sequence Entrance Review 3
	17
	15

Junior Year

Fall	Spring
GEP B.2. Cultural & Historical Foundation 3	MUX 3/4XXX Restricted Electives 3
MUH 3211 Music History and Literature I 3	MUH 3212 Music History and Literature II GEP
MUT 3571 20th Century Musical Analysis 3	MUL 44XX Literature and Pedagogy 3
MXV 343X Performance III 3	MXV 343X Performance III 3
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUX 3/4XXX Restricted Electives 3	MUN XXXX Major Ensemble 1
MUN XXXX Minor Ensemble 1	MUN XXXX Minor Ensemble 1
MUN XXXX Major Ensemble 1	MUS 3953 Recital Performance I 0
	17
	14

Senior Year

Fall	Spring
GEP D.1. Social Foundation 3	GEP D.2. Social Foundation 3
MXV 444X Performance IV 4	MXV 444X Performance IV 4
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
GEP E.2. Science Foundation 3	MUS 4954 Recital Performance II 0
MUN XXXX Major Ensemble 1	MUN XXXX Major Ensemble 1
MUN 3XXX Restricted Elective 1	MUN 3XXX Restricted Elective 1
Free Elective 2	Free Elective 3
	14
	12

Program B: Percussion

Freshman Year

Fall	Spring
ENC 1101 Composition I (GEP A.1.) 3	ENC 1102 Composition II (GEP A.2.) 3
MUT 1121 Music Theory and Musicianship I 4	MUT 1122 Music Theory and Musicianship II 4
MUN XXXX Major Ensemble 1	MUN XXXX Major Ensemble 1
MVP 1411 Percussion I 2	MVP 1411 Percussion I 2
MVK 1111 Class Piano I 1	MVK 1112 Class Piano II 1
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3	MUS 2360C Intro to Music Technology 3
	GEP E.1. Science Foundation 3
	14
	17

Sophomore Year

Fall	Spring
SPC 1600 Fundamentals Oral Comm (GEP A.3.) 3	GEP B.1. Cultural & Historical Foundation 3
MUT 2126 Music Theory and Musicianship III 4	MUT 2127 Music Theory and Musicianship IV 4
MUN XXXX Major Ensemble 1	MUN XXXX Major Ensemble 1
MUN 3443 Percussion Ensemble 1	MUN 3443 Percussion Ensemble 1
MVP 2421 Percussion II 2	MVP 2421 Percussion II 2
MVK 2121 Class Piano III 1	MVK 2122 Class Piano IV 1
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUG 3104 Basic Conducting 2	MGF 1106 Finite Mathematics (GEP C.1.) 3
STA 1060C Basic Statistics MS Excel (GEP C.2.) 3	Professional Sequence Entrance Review 3
	17
	15

Junior Year

Fall	Spring
GEP B.2. Cultural & Historical Foundation 3	MUX 3/4XXX Restricted Electives 3
MUH 3211 Music History and Literature I 3	MUH 3212 Music History and Literature II GEP
MUT 3571 20th Century Musical Analysis 3	MUL 3463 Percussion Literature 2
MVP 3431 Percussion III 3	MVP 3431 Percussion III 3
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUX 3/4XXX Restricted Electives 3	MUN XXXX Major Ensemble 1
MUN 3443 Percussion Ensemble 1	MUN 3443 Percussion Ensemble 1
MUN XXXX Major Ensemble 1	MUS 3953 Recital Performance I 0
	17
	13

Senior Year

Fall	Spring
GEP D.1. Social Foundation 3	GEP D.2. Social Foundation 3
MVP 4441 Percussion IV 4	MVP 4441 Percussions IV 4
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
GEP E.2. Science Foundation 3	MUS 4954 Recital Performance II 0
MUN XXXX Major Ensemble 1	MUN XXXX Major Ensemble 1
MVP 3630 Percussion Pedagogy 2	MUN 3XXX Restricted Elective 1
Free Elective 2	Free Elective 3
	15
	12

Program C: Piano

Freshman Year

Fall	Spring
ENC 1101 Composition I (GEP A.1.) 3	ENC 1102 Composition II (GEP A.2.) 3
MUT 1121 Music Theory and Musicianship I 4	MUT 1122 Music Theory and Musicianship II 4
MUN 3453 Piano Ensemble 1	MUN 3453 Piano Ensemble 1
MVK 1411 Piano I 2	MVK 1411 Piano I 2
MVK 1111 Class Piano I 1	MVK 1112 Class Piano II 1
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3	MUS 2360C Intro to Music Technology 3
	GEP E.1. Science Foundation 3
	14
	17

Sophomore Year

Fall	Spring
SPC 1600 Fundamentals Oral Comm (GEP A.3.) 3	GEP B.1. Cultural & Historical Foundation 3
MUT 2126 Music Theory and Musicianship III 4	MUT 2127 Music Theory and Musicianship IV 4
MUN 3453 Piano Ensemble 1	MUN 3453 Piano Ensemble 1
MVK 2421 Piano II 2	MVK 2421 Piano II 2
MVK 2121 Class Piano III 1	MVK 2122 Class Piano IV 1
MUS 1010 Music Forum 0	MUS 1010 Music Forum 0
MUG 3104 Basic Conducting 2	MGF 1106 Finite Mathematics (GEP C.1.) 3
STA 1060C Basic Statistics MS Excel (GEP C.2.) 3	Professional Sequence Entrance Review 3
	16
	14

Junior Year

Fall	Spring
GEP B.2. Cultural & Historical Foundation 3	MUX 3/4XXX Restricted Electives 3
MUH 3211 Music History and Literature I 3	MUH 3212 Music History and Literature II GEP

MUL 3400 Piano Literature I	2	MUL 3401 Piano Literature II	2
MUT 3571 20th Century Musical Analysis	3	MUX 3/4XXX Restricted Electives	3
MVK 3431 Piano III	3	MVK 3431 Piano III	3
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUN 3453 Piano Ensemble	1	MUN 3453 Piano Ensemble	1
		MUS 3953 Recital Performance I	0
	15		15

Senior Year

Fall		Spring	
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MVK 4441 Piano IV	4	MVK 4441 Piano IV	4
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP E.2. Science Foundation	3	MUS 4954 Recital Performance II	0
MUN 3453 Piano Ensemble	1	MUN 3453 Piano Ensemble	1
MVK 4640 Piano Pedagogy I	2	MUX 3/4XXX Restricted Electives	3
Free Elective	2	Free Elective	3
	15		14

Program D: Guitar

Freshman Year

Fall		Spring	
ENC 1101 Composition I (GEP A.1.)	3	ENC 1102 Composition II (GEP A.2.)	3
MUT 1121 Music Theory and Musicianship I	4	MUT 1122 Music Theory and Musicianship II	4
MUN 3487 Guitar Ensemble	1	MUN 3487 Guitar Ensemble	1
MVS 1416 Guitar I	2	MVS 1416 Guitar I	2
MVK 1111 Class Piano I	1	MVK 1112 Class Piano II	1
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUL 2014 Intro to Music History and Literature	3	MUS 2360C Intro to Music Technology	3
		GEP E.1. Science Foundation	3
	14		17

Sophomore Year

Fall		Spring	
SPC 1600 Fundamentals Oral Comm (GEPA.3)	3	GEP B.1. Cultural & Historical Foundation	3
MUT 2126 Music Theory and Musicianship III	4	MUT 2127 Music Theory and Musicianship IV	4
MUN 3487 Guitar Ensemble	1	MUN 3487 Guitar Ensemble	1
MVS 2426 Guitar II	2	MVS 2426 Guitar II	2
MVK 2121 Class Piano III	1	MVK 2122 Class Piano IV	1
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUG 3104 Basic Conducting	2	MGF 1106 Finite Mathematics (GEP C.1.)	3
STA 1060C Basic Statistics MS Excel (GEP C.2.)	3	Professional Sequence Entrance Review	14
	16		14

Junior Year

Fall		Spring	
GEP B.2 Cultural & Historical Foundation	3	MUX 3/4XXX Restricted Electives	3
MUH 3211 Music History and Literature I	3	MUH 3212 Music History and Literature II	GEP
MUX 3/4XXX Restricted Electives	3	MUL 4437 String Literature and Pedagogy	3
MUT 3571 20th Century Musical Analysis	3	MVS 3436 Guitar III	3
MVS 3436 Guitar III	3	MUN 3487 Guitar Ensemble	1
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUN 3487 Guitar Ensemble	1	MUS 3953 Recital Performance I	0
	16		13

Senior Year

Fall		Spring	
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MVS 4446 Guitar IV	4	MVS 4446 Guitar IV	4
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP E.2. Science Foundation	3	MUS 4954 Recital Performance II	0
MUN 3487 Guitar Ensemble	1	MUN 3487 Guitar Ensemble	1
MUX 3/4XXX Restricted Electives	3	MUX 3/4XXX Restricted Electives	3
Free Elective	2	Free Elective	3
	16		14

Program E: Voice

Freshman Year

Fall		Spring	
ENC 1101 Composition I (GEP A.1.)	3	ENC 1102 Composition II (GEP A.2.)	3
MUT 1121 Music Theory and Musicianship I	4	MUT 1122 Music Theory and Musicianship II	4
MUN XXXX Major Ensemble	1	MUN XXXX Major Ensemble	1
MVV 1411 Voice I	2	MVV 1411 Voice I	2
MUS 1250 IPA for Singers	1	MUS 3255 German and English Lyric Diction	2
MVK 1111 Class Piano I	1	MVK 1112 Class Piano II	1
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUL 2014 Intro to Music History and Literature	3	MUS 2360C Intro to Music Technology	3
	15		16

Sophomore Year

Fall		Spring	
MGF 1106 Finite Mathematics (GEP C.1.)	3	GEP B.1. Cultural & Historical Foundation	3
MUT 2126 Music Theory and Musicianship III	4	MUT 2127 Music Theory and Musicianship IV	4
MUN XXXX Major Ensemble	1	MUN XXXX Major Ensemble	1
MVV 2421 Voice II	2	MVV 2421 Voice II	2
MVV 3254 Italian and French Lyric Diction	2	SPC 1600 Fundamentals Oral Comm (GEPA.3)	3
MVK 2121 Class Piano III	1	MVK 2122 Class Piano IV	1
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
MUG 3104 Basic Conducting	2	STA 1060C Basic Statistics MS Excel (GEP C.2.)	3

Professional Sequence Entrance Review
15 17

Junior Year

Fall		Spring	
MUH 3211 Music History and Literature I	3	MUH 3212 Music History and Literature II	GEP
MUT 3571 20th Century Musical Analysis	3	GEP B.2. Cultural & Historical Foundation	3
MVV 3431 Voice III	3	MVV 3431 Voice III	3
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
XXX 1120 Foreign Language	4	XXX 1121 Foreign Language	4
MUN XXXX Major Ensemble	1	MUN XXXX Major Ensemble	1
MUN XXXX Minor Ensemble	1	MUN XXXX Minor Ensemble	1
		MUS 3953 Recital Performance I	0
	15		15

Senior Year

Fall		Spring	
GEP D.1. Social Foundation	3	GEP D.2. Social Foundation	3
MVV 4441 Voice IV	4	MVV 4441 Voice IV	4
MVV 4640 Voice Pedagogy I	2	MUL 3602 Song Literature	3
MUS 1010 Music Forum	0	MUS 1010 Music Forum	0
GEP E.1. Science Foundation	3	GEP E.2. Science Foundation	3
MUN XXXX Major Ensemble	1	MUN XXXX Major Ensemble	1
		MUS 4954 Recital Performance II	0
	13		14

NURSING (B.S.N.)

A. BASIC PROGRAM

(For individuals who are not Registered Nurses)

College of Nursing

HPA1 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

E-mail: ucfnurse@mail.ucf.edu

Dean: Jean Leuner; Associate Dean Undergraduate: Linda Hennig; Undergraduate Coordinator: Patricia Leli

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program.

- **Separate application** to the *limited access program* must be made directly to the College of Nursing prior to February 1 of the year admission is sought for the Orlando Campus and June 1 the prior year for January admission on the Brevard and Daytona Campus (see information on Accelerated Second Degree program for deadline)
- Application for admission to the University must also be submitted by the program deadline
- Student must complete all general education, foreign language, and program prerequisite requirements prior to the start of the program. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.
- Three prerequisite biological science courses must be completed by the program application deadline. Five of the nine program prerequisites must be completed by the program application deadline.
- The College of Nursing has a demanding curriculum. The classes are work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one year post high school prior to applying to the basic nursing program. Students with concerns or questions should contact the nursing office for an appointment with a basic faculty advisor.
- All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of "C" (2.0) or better
- Early acceptance may be offered to First-Time-in-College (FTIC) students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECP). For specific information about early acceptance, contact the School of Nursing.

Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX-RN). The program is accredited by the Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General

UCF Degree Programs

- Education requirements and the Common Program Prerequisites
- Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, and should be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- Any variation from the stated prerequisites must be approved in writing by the College of Nursing. Petition forms are available in the College of Nursing office.

1. UCF General Education Program (36+1 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
MAC 1105
Select STA 2014C
- D. Social Foundations 6 hrs
Select both SYG 2000 and PSY 2012*
Select ECO 2013 or ECO 2023 or POS 2041
- E. Science Foundations:** 7 hrs
Select BSC 2010C
Select CHM 1032 (and lab)

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (21 hrs)

- PSY 2012 General Psychology** GEP
- SYG 2000 Sociology** 3 hrs
- MCB 2004C Health Microbiology (S****) 4 hrs
- CHM 1032/L General Chemistry and lab** (S****) GEP
- ZOO 3733C Human Anatomy* (S****) 4 hrs
- PCB 3703C Human Physiology* (S****) 4 hrs
- STA 2014C or 2023 Principles of Statistics** GEP
- SOW 3104 Assessing Human Development 3 hrs
- or DEP 2004 Developmental Psychology
- HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.

**Also meets General Education Requirements. The first semester of a two semester general chemistry course does not meet requirement (ie CHM 1045, 2045, Chemistry I).

****S* indicates biological science prerequisite.

3. Core Requirements (64 hrs)

- NUR 3065 Health Assessment 2 hrs
- NUR 3065L Health Assess Lab 1 hr
- NUR 3825 Role of Professional Nurse 2 hrs
- NUR 3028 Essentials of Nursing Practice 2 hrs
- NUR 3755L Essentials of Nursing Practice Clinical 2 hrs
- NUR 3028L Essentials of Nursing Practice Lab 1 hr
- NUR 3634 Community Health Nursing 3 hrs
- NUR 3634L Community Health Nursing Clinical 2 hrs
- NUR 3125 Pathophysiology for Nurses 3 hrs
- NUR 3145 Pharmacology for Nurses 3 hrs
- NUR 3225 Nursing Care of the Adult I 3 hrs
- NUR 3225L Nursing Care of the Adult I Clinical 2 hrs
- NUR 3445 Nursing Care of Families 3 hrs
- NUR 3445L Nursing Care of Families Clinical 2 hrs
- NUR 3165 Nursing Research 3 hrs
- NUR XXXX Nursing Elective 3 hrs
- NUR 4837 Health Care Issues, Policy, and Economics 3 hrs
- NUR 4932 ST: Nursing Care of the Adult II 3 hrs
- NUR 4932L ST: Nursing Care of the Adult II Clinical 3 hrs
- NUR 4932 ST: Psychiatric Mental Health Nursing 3 hrs
- NUR 4932L ST: Psychiatric Mental Health Nursing Clinical 2 hrs
- NUR 4932 ST: Leadership, Management and Role Transition 3 hrs
- NUR 4257 ST: Introduction to Critical Care 3 hrs
- NUR 4932 ST: Public Health Nursing 2 hrs
- NUR 4932L Public Health Nursing Clinical 1 hr
- NUR 4945L Nursing Practicum 4 hrs

Any variation from the above must be approved by the school of Nursing.

4. Upper Division Restricted Electives (3 hrs)

- Nursing Elective:
- Any College of Nursing Elective approved by advisor

5. Departmental Continuation and Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- UCF GPA of 2.5 or above
- College of Nursing GPA of 2.5 or above

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 122 hrs

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Psychology, Health Sciences, Health Services Administration

Transfer Notes:

Examples of Community College Equivalent Courses - Prerequisites

General Psychology (PSY X012) or any General Psychology course	3
General Sociology (SYG 2000) or any Intro to Sociology course	3
Statistics (STA 2014C or 2023) or any Statistics course	3
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*	4
Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086)	6-8
General Microbiology (MCB 3020C) (MCB X010C) w/lab or any Microbiology course w/lab	4
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course	3
Human Nutrition with therapeutic nutrition focus	3

*The first semester of a two semester general chemistry course does not meet requirement (ie CHM 1045, 2045, Chemistry I).

Note: A grade of "C" (2.0) or better is required in all prerequisite courses.

Honors

Honors Option Requires:

- Completion of a three credit directed readings course
- Completion of a three credit thesis course
- Open to students with a minimum 3.5 GPA in Nursing
- Minimum cumulative UCF 3.2 GPA
- Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Freshman Year			
Fall	16 hrs	Spring	14 hrs
SYG 2000	3	CHM 1032/L	3/1
ENC 1101	3	ENC 1102	3
MAC 1105	3	STA 2014C or STA 2023	3
BSC 2010C	4	ZOO 3733C	4
PSY 2012	3		
Sophomore Year			
Fall	16 hrs	Spring	13 hrs
POS 2041 or ECO 2013 or ECO 2023	3	EUH 2001 or HUM 2230 or	3
EUH 2000 or HUM 2210	3	or AMH 2020 or WOH 2022	
or AMH 2010 or WOH 2012		MCB 2004C	4
PCB 3703C	4	*SPC 1600	3

SOW 3104 <i>or</i> DEP 2004 HUN 3011	3 (One Course:) ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120	3
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Junior Year			
Fall	15 hrs	Spring 16 hrs	
NUR 3825	2	NUR 3125	3
NUR 3065	2	NUR 3145	3
NUR 3065L	1	NUR 3225	3
NUR 3028	2	NUR 3225L	2
NUR 3755L	2	NUR 3445	3
NUR 3028L	1	NUR 3445L	2
NUR 3634	3		
NUR 3634L	2		
Summer C/D			
NUR 3165	3		
NUR XXXX (elective) and/or	3		
NUR 4837	3		

Senior Year			
Fall	14-17 hrs	Spring 13-16 hrs	
NUR 4932 ST	3	NUR 4932 ST	3
NUR 4932L ST	3	NUR 4932 ST	3
NUR 4932 ST	3	NUR 4932 ST	2
NUR 4932L ST	2	NUR 4257 ST	1
NUR 4837 <i>or</i>	3	NUR 4945L	4
NUR XXXX Elective (if not already taken)	3	NUR XXXX Elective (if not already taken)	3

NURSING (B.S.N.) B. RN TO BSN PROGRAM

(Completion program for individuals who are licensed RNs)

**College of Nursing
HPA1 220, 407-823-2744**

<http://www.cohpa.ucf.edu/nursing/>

E-mail: ucfnurse@mail.ucf.edu

RN to BSN Coordinator

This program is also available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see <http://distrib.ucf.edu/home>.

Admission Requirements Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program. **Separate application** to the *limited access program* must be made directly to the College of Nursing. All applicants must have:

- Admission to UCF undergraduate program
- Graduation from an approved or accredited associate degree or diploma nursing program
- Current Licensure as an RN (or eligible)
- Progress toward the UCF general education requirements, an AA degree from a Florida Community College, or eligible for the Statewide Articulated AS-BSN Program (see AS to BS)
- Completion of all sections of CLAST (or Exempt)
- A minimum overall GPA of 2.5
- Completion of program prerequisite courses with at least a grade of "C" (2.0) or better

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education Program requirements
- Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other university
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36+1 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
 - MAC 1105
 - 1. Select MAC 1105
 - 2. Select STA 2014C *or* STA 2023
- D. Social Foundations 6 hrs
 - Select SYG 2000 *or* PSY 2012 *
 - Select one: ECO 2013 *or* ECO 2023 *or* POS 2041
- E. Science Foundations: ** 7 hrs
 - Select BSC 2010C (4)
 - Select CHM 1032 (3)

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (21 hrs)

- PSY 2012 General Psychology** GEP
- SYG 2000 Sociology** 3 hrs
- MCB 2004C Health Microbiology 4 hrs
- CHM 1032 General Chemistry** GEP
- CHM 1032L General Chemistry Lab GEP
- ZOO 3733C Human Anatomy* 4 hrs
- PCB 3703C Human Physiology 4 hrs
- STA 2014C *or* 2023 Principles of Statistics** GEP
- SOW3104 Assessing Human Development 3 hrs
- or* DEP 2004 Developmental Psychology
- HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.

**Also meets General Education Requirements; Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core Requirements (50 hrs)

- NUR 3805 Dimensions of Professional Nursing Practice 3 hrs
- NUR 3065 Health Assessment 2 hrs
- NUR 3065L Health Assessment Lab 1 hr
- NUR 3165 Nursing Research 3 hrs
- NUR 3634 Community Health Nursing 3 hrs
- NUR 4827 Leadership, Management and Role Development 3 hrs
- NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
- NUR 4XXX Public Health Nursing 2 hrs
- NUR 4XXXL Practicum in Community and Public Health Nursing for RNs 4 hrs

Upper Division Credit* 26 hrs

- NUR 3028 Essentials of Nursing Practice 2 cr.
- NUR 3755L Essentials of Nursing Practice Clinical 2 cr.
- NUR 3028L Essentials of Nursing Practice Lab 1 cr.
- NUR 3225 Nursing Care of the Adult I 3 cr.
- NUR 3225L Nursing Care of the Adult I Clinical 2 cr.
- NUR 3445 Nursing Care of Families 3 cr.
- NUR 3445L Nursing Care of Families Clinical 2 cr.
- NUR XXXX Nursing Care of the Adult II 3 cr.
- NUR XXXXL Nursing Care of the Adult II Clinical 3 cr.
- NUR XXXX Psychiatric Mental Health Nursing 3 cr.
- NUR XXXXL Psychiatric Mental Health Nursing Clinical 2 cr.

*May be met by Validation

4. Upper Division Restricted Elective (6 hrs)

- NUR XXXX Any two upper division Nursing Electives 6 hrs

5. Departmental Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- Overall cumulative GPA of 2.5 or above
- College of Nursing GPA of 2.5 or above

6. Electives variable to meet degree requirements

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in res-

UCF Degree Programs

idency at UCF

- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Health Services Administration, Social Work, All health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study

Semester I		Semester II	
NUR3805	3	NUR 3165	3
NUR 3065	2	NUR 3634 Community Health	3
NUR 3065L	1		
Semester III		Semester IV	
NUR 4837	3	NUR 4xxx Leadership	3
NUR XXXX (elective)	3	NUR 4xxx Public Health	2
		NUR 4xxxL Practicum	4

*Elective may be taken at any point.

Progression requirements:

Prior to NUR 3805: RN status or eligible to take NCLEX.

Prior to NUR 3165: Complete NUR 3805 and Statistics course with grade of "C" (2.0) or better.

Prior to NUR 3634 Community Health Nursing

- Be admitted to the nursing program
- Complete general education requirements and prerequisites or A.A. from a Florida public community college or university (SUS)
- Complete CLAST(or exempt)
- Complete Foreign language admission requirement

Other

Selected courses may be offered at regional campuses of Daytona and Cocoa.

The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica may be required. For further information access <http://www.cohpa.ucf.edu/nursing/>.

NURSING ACCELERATED SECOND DEGREE

C. BACHELOR OF SCIENCE IN NURSING (BSN) OPTION

Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.

NURSING (B.S.N.)

D. RN TO MSN OPTION

Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.

NURSING (B.S.N.)

E. AS TO BSN TRACK

Note: For detailed information about this program, see description in the AS to BS Program section.

NURSING (B.S.N.)

F. SCC/UCF ASN to BSN enrollment option

College of Nursing

HPA1 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

E-mail: ucfnurse@mail.ucf.edu

RN to BSN Coordinator

Program Description

A partnership between Seminole Community College (SCC) and

UCF College of Nursing to allow qualified Associate of Science in Nursing (ASN) students to enter the RN to BSN program while completing the ASN at SCC. This program allows simultaneous enrollment in both associate and baccalaureate nursing programs.

Admission Requirements

Acceptance to the University does not constitute admission to this program. Only students admitted to the Seminole Community College Nursing Program are invited to apply to this SCC/UCF Enrollment option. Upon invitation, students must make separate application to the UCF College of Nursing. Students are accepted into this program during their first year of nursing at SCC and must progress according to a designated plan of study.

At the time of application, students must have:

- A cumulative GPA of 2.8 or above
- Been accepted for enrollment and in good standing at SCC ASN Nursing program.
- An AA degree from a Florida Community College or have met UCF General Education requirements
- Met UCF Foreign Language admission requirement
- Completed pre-requisite coursework for both the UCF and the SCC nursing programs.
- Completed all sections of CLAST (or exempt)

Students not yet admitted to UCF must make application and be accepted by the University. Upon completion of the ASN and successful licensure as a Registered Nurse, students will enroll in remaining UCF Nursing upper division courses to complete the BSN.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education Program requirements
- Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other university
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program	(36+1 hrs)
A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
MAC 1105	
1. Select MAC 1105	
2. Select STA 2014C <i>or</i> STA 2023	
D. Social Foundations	6 hrs
Select SYG 2000 <i>or</i> PSY 2012 *	
Select one: ECO 2013 <i>or</i> ECO 2023 <i>or</i> POS 2041	
E. Science Foundations: **	7 hrs
Select BSC 2010C (4)	
Select CHM 1032 (3)	

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites	(21 hrs)	
PSY 2012	General Psychology**	GEP
SYG 2000	Sociology**	3 hrs
MCB 2004C	Health Microbiology	4 hrs
CHM 1032/L	General Chemistry **	GEP
CHM 1032L	General Chemistry Lab	GEP
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology	4 hrs
STA 2014C <i>or</i> 2023	Principles of Statistics**	GEP
SOW3104	Assessing Human Development <i>or</i>	3 hrs
<i>or</i> DEP 2004	Developmental Psychology	

HUN 3011 Human Nutrition 3 hrs
 *May take Anatomy and Physiology sequence of six-eight total credits.
 **Also meets General Education Requirements;
 Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core UCF Requirements	(25 hrs)
NUR 3806 Professional Socialization in Nursing	1 hr
NUR 3805 Dimensions of Professional Nursing Practice	3 hrs
NUR 3065 Health Assessment	2 hrs
NUR 3065L Health Assessment Lab	1 hr
NUR 3165 Nursing Research	3 hrs
NUR 3634 Community Health Nursing	3 hrs
NUR 4XXX Leadership, Management and Role Development	3 hrs
NUR 4837 Health Care Issues, Policy, & Economics	3 hrs
NUR 4XXX Public Health Nursing	2 hrs
NUR 4XXXL Practicum in Community and Public Health Nursing for RNs	4 hrs

Upper Division Credit*	(26 hrs)
NUR 3028 Essentials of Nursing Practice	2 cr.
NUR 3028L Essentials of Nursing Practice Lab	1 cr.
NUR 3755L Essentials of Nursing Practice Clinical	2 cr.
NUR 3225 Nursing Care of the Adult I	3 cr.
NUR 3225L Nursing Care of the Adult I Clinical	2 cr.
NUR 3445 Nursing Care of Families	3 cr.
NUR 3445L Nursing Care of Families Clinical	2 cr.
NUR XXXX Nursing Care of the Adult II	3 cr.
NUR XXXXL Nursing Care of the Adult II Clinical	3 cr.
NUR XXXX Psychiatric Mental Health Nursing	3 cr.
NUR XXXX L Psychiatric Mental Health Nursing Clinical	2 cr.

*May be met by validation

4. Upper Division Restricted Elective	(6 hrs)
NUR XXXX Any two upper division Nursing Electives	6 hrs

5. Departmental Exit Requirements
 Completion of all courses in major with a grade of "C" (2.0) or better
 ■ Overall Cumulative GPA of 2.5 or above
 ■ School of Nursing GPA of 2.5 or above

6. Electives (variable to meet degree requirements)

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements
 ■ A 2.0 UCF GPA
 ■ 60 semester hours earned after CLEP awarded
 ■ 48 semester hours of upper division credit completed
 ■ 30 of the last 36 hours of course work must be completed in residency at UCF
 ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
 ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs
Related Programs: Health Services Administration, Social Work, All health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study (Junior Year UCF)
While Enrolled in SCC Associate of Science in Nursing Program

Semester I	
NUR 3806	1
NUR 3065	2
NUR 3065L	1
Semester II	
NUR 3805	3
Semester III	
NUR 3165	3
NUR 3XXX Community Health	3
Semester IV	
NUR 4837	3
Semester V	
NUR elective	3

Semester VI	
NUR 4XXX elective	3
4XXX Public Health	2
Semester VII	
NUR 4XXX Leadership	3
NUR 4XXXL Practicum	4

ORGANIZATIONAL COMMUNICATION (B.A.) See Interpersonal/Organizational Communication.

PHILOSOPHY (B.A.)
College of Arts and Humanities
Philosophy Department, CNH 411
<http://www.cas.ucf.edu/philosophy>
E-mail: philosophy@ucf.edu

Contact: Don Jones or Jennifer Mundale, 407-823-2273;
Fax: 407-823-6658

Admission Requirements none
Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program	(36 hrs)
A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
Select HUM 2210 Humanistic Traditions I	3 hrs
Select HUM 2230 Humanistic Traditions II	3 hrs
Select PHI 2010 Intro to Philosophy	3 hrs
C. Mathematical Foundations	
Prefer MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites none

3. Core requirements* (36 hrs)

a. Core (0 hrs)	
HUM 2210 Humanistic Traditions I	GEP
HUM 2230 Humanistic Traditions II	GEP
PHI 2010 Intro to Philosophy	GEP
PHI 3083 Research Methods	(3 hrs)
To be completed before the end of Junior year as a prerequisite to enrollment in Senior courses.	
PHI 4938 Senior Research Seminar	(3 hrs)

b. Reasoning: (6 hrs)

<i>Take any two of the following courses:</i>	
PHI 2011 Philosophical Reasoning	
PHI 2101 Critical Thinking	
PHI 2108 Formal Logic I	
PHI 2647 Logic and Ethics	
PHI 3131 Formal Logic II	

c. History of Philosophy (9 hrs)

<i>Take two of the following courses:</i>	
PHH 3100 Ancient Philosophy	
PHH 3200 Medieval Philosophy	
PHH 3460 Modern Western Philosophy	
<i>Take one of the following courses:</i>	
PHH 3600 Contemporary Philosophy	
PHH 3510 Marx and Nietzsche	
PHH 3700 American Philosophy	
PHI 3730 African Philosophy	

d. Values and Society (6 hrs)

<i>Take any two of the following courses:</i>	
PHI 3670 Ethical Theory	

UCF Degree Programs

PHI 3626	Advanced Ethics in Science and Technology
PHM 3401	Philosophy of Law
PHI 3800	Aesthetics
PHM 3123	Feminist Theories
PHI 3638	Ethical Issues in the 21st Century
PHI 3625	Virtual Ethics
PHI 4633	Ethics and Biological Science
PHM 3100	Freedom and Justice
PHI 3640	Environmental Ethics
PHM 4031	Environmental Philosophy
PHH 3701	Native American Philosophy
PHI 3805	Contemporary Aesthetics

e. Being and Knowing (6 hrs)

Take any two of the following courses:

PHI 4500	Metaphysics
PHI 4341	Ways of Knowing
PHI 4300	Theories of Knowledge
PHI 3700	Philosophy of Religion
PHI 4400	Philosophy of Science
PHI 3320	Philosophy of Mind
PHI 3451	Philosophy of Psychology
PHI 4420	Philosophy of Social Science
PHI 3323	Minds and Machines
PHP 4782	Phenomenology
PHI 4221	Philosophy of Language

f. Topics in Philosophy (3 hrs)

Take one of the following courses:

PHI 4931	Philosophy in the News
PHI 3683	Philosophy of Friendship
PHI 4321	Philosophies of Embodiment
PHI 3648	Ethical Issues of the Human Genome Project
PHI 3022	Sexuality, Gender and Philosophy
PHI 3033	Philosophy, Religion and the Environment
PHI 4804	Critical Theory
PHP 3783	Modernity as a Philosophical Problem
PHI 3750	Problem of Evil
PHI 3720	Faith and Reason
PHI 3803	Philosophy and Creativity
PHI 3941	Philosophy Practicum
REL 3111	Religion and Philosophy through Film
PHP 3786	Existentialism
HUM 4330	Performance Theory

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Departmental Exit Requirements (3 hrs)

- Either PHI 4970H: Honors Thesis (3 hrs) or PHI 4938 Senior Research Seminar.
- Earn a "C" (2.0) or better in each required course.
- Computer Competency met by PHI 4970H, PHI 4938, or by STA 1060C.
- Departmental Exit Exam in final semester.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

7. Electives (variable - to reach 120)

Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF

- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required (120 hrs)

Related Programs: Humanities, Humanities - Philosophy, Religion, Pop Culture Track, Religious Studies

Related Minors: Cognitive Sciences, Environmental Studies, Humanities, Philosophy, Religious Studies, Women's Studies

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Honors in the Major:

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core requirements (36 hrs)

Same requirements as for regular majors, but must include PHI 2101 Formal Logic I

Upper division Restricted Electives (6 hrs)

Same requirements as for regular majors.

Honors Thesis

PHI 4903H	Honors Directed Reading	3 hrs
PHI 4970H	Honors Thesis	3 hrs

Additional Requirements:

- Application and admission through the Philosophy Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both PHI 4903H and PHI 4970H
- Maintain UCF GPA of at least 3.2 and a Philosophy GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. (i.e. "req#1 C1-GEP" indicates a requirement from section 1 *UCF General Education Program,* section C Mathematical Foundation #). Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring	
ENC 1101 Composition I	3 ENC 1102 Composition II	3
HUM 2210 Hum Tradition I	3 HUM 2230 Hum Tradition II	3
MGF 1106* req# 1C1-GEP	3 STA 1060C* req# 1C2-GEP	3
PHI 2010 Intro to Phil	3 PHI 2101* req# 3b-FoundnReasoning	3
SPN 1120* req# Lang/Elect	4 SPN 1121* req# Lang/Elect	4

Sophomore Year

Fall	Spring	
BSC 1005* req# 1E2-GEP	3 CHM 1020* req# 1E1-GEP	3
PSY 2012* req# 1D2-GEP	3 POS 2041* req# 1D1-GEP	3
SPC 1600* req# 1A3-GEP	3 PHH 3460* req# 3c-DiscHistory	3
PHI 2108 Reasoning	3 PHI 3670* req# 3d-ApplValues	3
PHH3100* req# 3c-History	3 Elective* Check restrictions	3

Junior Year

Fall	Spring	
PHI 3083 Res Meth in Phil	3 PHP 4782* req# 3e-Being	3
PHH 3600* req# 3c-History	3 PHM 3401 req# 3d Values	3
PHI 3320* req# 3e-Being	3 PHI 4321 req# 3f Topics	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

Senior Year

Fall	Spring	
PHP 3786* req# 4-ResEle	3 PHI 4938 Seminar	3
PHI 4804* req#4-ResEle	3 Elective* or PHI 4970H	3
Elective* or PHI 4903H	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

Elective* Check restrictions 3 Elective* Check restrictions 3

PHOTOGRAPHY (B.S.)

College of Arts and Humanities

E-mail: ls@mail.ucf.edu

Advisors: Kevin Haran (UCF-Orlando), 407-823-2676; Jason Burrell (UCF-Daytona), 386-506-3944

The Photography B.S. program is a joint program between the University of Central Florida and Daytona Beach Community College.

(This program is only offered at UCF at the Daytona Beach Campus)

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Admission Requirements

Completion of an A.S. in Photographic Technology from Daytona Beach Community College or equivalent coursework.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with a Photography advisor before selecting this major, and at least annually thereafter.
- Upper-division electives, internship credit, and course substitutions must be approved by the program director.
- Students must earn at least a "C" in each required upper level course and maintain an overall GPA of at least 2.0

Degree Requirements

1. UCF General Education Program (36 hrs)

Students who have not satisfied General Education Requirements before transferring will complete the remaining courses at UCF. The specific courses will depend on the general education courses completed as part of the articulated A.S., and will come from the following areas:

A. Communication Foundations		
ENC 1101	Composition I	AS
ENC 1102	Composition II	3 hrs
SPC 2600*	Speech	AS
B. Cultural and Historical Foundations		
ARH 2051	History and Criticism of Art II	AS
C. Mathematical Foundations		
MAC 1105	College Algebra or	
MGF 2106	College Mathematics or	
MGF 2107	Mathematics for Liberal Arts	AS
	Computer Science or Statistics	3 hrs
D. Social Foundations		
	Political Science or Economics	3 hrs
	Psychology or Sociology	AS
E. Science Foundation		
	Physical Science	3 hrs
	Life Science	3 hrs

2. Common Program Prerequisites (0 hrs)

(Included in A.S. or B.S. requirements.)

Subject to change. Prerequisites have not been set by the state.

ARH 2051	History and Criticism of Art II	AS
GRA 1741*	Principles of Design and Color	AS
GRA 1100*	Computer Graphics Fundamentals	AS
PGY 1403*	Fundamentals of Photography	AS
PGY 3610C	Photojournalism I	BS

3. AS Required Courses: (49 hrs)

(Completed in the A.S. degree program in Photographic Technology, or equivalent coursework)

CGS 1570	Introduction to Computer Applications	1 hr
DIG 1109	Digital Imaging Fundamentals	3 hrs
GRA 1741	Principles of Design and Color	3 hrs
PGY 1115	Color Materials and Processes	7 hrs
PGY 1265	Advanced Processes and Techniques	4 hrs
PGY 1403	Fundamentals of Photography	4 hrs
PGY 1402	Photographic Materials and Processes	4 hrs
PGY 1806	Digital Imaging	4 hrs

PGY 2000	History and Aesthetics of Photography	3 hrs
PGY 2107	Large Format Photography	4 hrs
PGY 2215	Studio Lighting	4 hrs
PGY 2216	Location Photography	4 hrs
PGY 2655	Applied Photography	4 hrs

4. Upper Division Required Courses (39 hrs)

PGY 3002	Contemporary Photography	3 hrs
ARH 3711	History of Photography II	3 hrs
PGY 4003	Image, Culture, and Society	3 hrs
CRW 3011	Creative Writing for Non-Majors	3 hrs
PGY 3821	Digital Imagery for Photography	3 hrs
PGY 3610C	Photojournalism I	3 hrs
PGY 3620C	Photojournalism II	3 hrs
PGY 4472	Photography Workshop/Project	3 hrs
PGY 4228	Advanced Illustrative Photography	3 hrs
PGY 4471	Photography Thesis	3 hrs
PGY 3324	The Professional Environment	3 hrs
PGY 3205	Photographic Lighting Techniques	3 hrs
PGY 3480	Photographic Exhibition and Display	3 hrs

5. Upper Division Restricted Electives (3 hrs)

Select one of the following courses.

PGY 3451	Alternative Processes	3 hrs
PGY 3809	Photography and Web Design	3 hrs
PGY 3751	Videography	3 hrs

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 42 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 127 hrs

Community College Transfer Notes

- Students transferring from any Florida public institution with an A.A. degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the area by the department. The student must provide all supporting information.

Acceptable substitutes for General Education and Common

Program Prerequisites

- ARH1000* May substitute ARH 2500 or ARH 2050
- GRA 1741* May substitute GRA 2111C
- GRA 1800* May substitute GRA 2140C

PHYSICAL EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://pegasus.cc.ucf.edu/~ucfphyed/>

Program Coordinator: Dr. Patricia Higginbotham, ED 320-H, 407-823-2050, E-mail: higginbp@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).

UCF Degree Programs

- Complete all Education Common Program Prerequisites and Other Program Prerequisites courses with a minimum letter grade of "C-" (1.75) or better

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program), 2 (Education Common Program Prerequisites), and 3 (Other Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36+1 hrs)

- A. Communication Foundation (9 hrs)
- ENC 1101 English Composition I 3 hrs
 - ENC 1102 English Composition II 3 hrs
 - Prefer: SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundation (9 hrs)
- Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
 - Elective from GEP section B.2. 3 hrs
 - Prefer: AMH 2020 U.S. History 1877-present 3 hrs
- C. Mathematical Foundation (6 hrs)
- Prefer: MGF 1106 Finite Mathematics 3 hrs
 - Prefer: STA 1060C Basic Statistics using MS Excel *or* STA 2014C Principles of Statistics 3 hrs
- D. Social Foundation (6 hrs)
- Prefer: POS 2041 American National Government 3 hrs
 - Prefer: PSY 2012 General Psychology 3 hrs
- E. Science Foundation (7 hrs)
- Prefer: PSC 1121 Physical Science 3 hrs
 - Select: BSC 2010C Biology I 4 hrs

2. Education Common Program Prerequisites (9 hrs)

- EDF 2005 Introduction to Education 3 hrs
 EDG 2701 Teaching Diverse Populations 3 hrs
 EME 2040 Technology for Educators 3 hrs

3. Other Program Prerequisites (10 hrs)

- BSC 2010C Biology I GEP
 ZOO 3736C Human Anatomy with Lab 4 hrs
 PET 2622C Human Injuries 3 hrs

Select one:

- PEO 2011 Team Sports *or* 3 hrs
 PEO 2031 Indiv. Sports and Leisure Activities 3 hrs

4. Lower Division Electives (9 hrs)

- Lower division electives 9 hrs

5. Education Core Requirements (12 hrs)

- EDG 4323 Professional Teaching Practices 3 hrs
 EDF 4214 Classroom Learning Principles 3 hrs
 TSL 4080 Thy & Prac Teaching ESOL Students in Schools 3 hrs
 RED 4043 Content Reading K-12 3 hrs

6. Specialization Requirements (27 hrs)

- ZOO 3736C Human Anatomy with Lab OPP
 DAE 3370 Dance & Rhythmics 3 hrs
 PEO 3041 Games Analysis 3 hrs
 PET 2622C Human Injuries OPP
 PET 4050C Motor Development & Learning 3 hrs
 PET 4312 Biomechanics 3 hrs
 PET 4351C Applied Exercise & Human Physiology 3 hrs
 PET 4401 Administration and Evaluation in PE 3 hrs
 PET 4550 Fitness Assessment 3 hrs
 PET 4640 Adapted PE 3 hrs
 PET 4823C Teaching Sports Skills 3 hrs

7. Internship I and Methods Block (6 hrs)

- PET 3940 Internship I 3 hrs
 PET 4710 Teaching Physical Education K-12 3 hrs

- Program Internship I Prerequisites: EDG 4323 must be completed prior to Internship I with a minimum grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Students must apply and be approved for Internship I. Deadline

dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.
- PET 4710 must be taken concurrently with PET 3940 (Internship I)
- Junior/senior standing required; normally taken during next to last full-time semester.

8. Internship II (PET 4943) (10 hrs)

- All methods and specialization courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing score on the Subject Area Examination (Physics 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Semester Hours Required 120 hrs

13. Coaching Endorsement (Optional) (6 hrs)

- PET 3765 Coaching Theory 3 hrs
 Select one of the following courses:
 PEO 2624 Coaching Basketball *or* 3 hrs
 PEO 3324 Coaching Volleyball *or*
 PEO 3644 Coaching Football 3 hrs

14. Recommended Sequence of Program Courses:

Freshman Year	(13 hrs)	Spring	(15 hrs)
Fall			
BSC 2010C Biology I	4	EDG 2701 Teaching Diverse Pop	3
EDF 2005 Introduction to Education	3	ENC 1102 English Composition II	3
ENC 1101 English Composition I	3	PSC 1121 Physical Science	3
MGF 1106 Finite Mathematics	3	Lower division elective from GEP section B2	3
		Lower division elective	3
Summer	(6 hrs)		
EME 2040 Technology for Educators	3		
POS 2041 American National Gov	3		

Sophomore Year

Fall	(13hrs)	Spring	(12 hrs)
AMH 2010 U.S. History 1492-1877	3	AMH 2020 U.S. History 1877-present	3
PSY 2012 General Psychology	3	PET 2622C Human Injuries	3
SPC 1600 Fund of Oral Comm	3	Lower division elective	3
ZOO 3736C Human Anatomy with Lab	4	Select one:	3
		PEO 2011 Team Sports <i>or</i>	
		PEO 2031 Indiv. Sports & Leisure Activ	
Summer	(6 hrs)		
STA 2014C Principles of Statistics	3		
Lower division elective	3		

Junior Year

Fall	(12 hrs)	Spring	(12 hrs)
DAE 3370 Dance & Rhythmics	3	EDF 4214 Classroom Learn Principles	3
EDG 4323 Professional Teaching Practices	3	PET 4312 Biomechanics	3
PEO 3041 Games Analysis	3	RED 4043 Content Reading K-12	3
PET 4823C Teaching Sports Skills	3	TSL 4080 Theory & Prac of Teach	3
		ESOL Students in Schools	
Summer	(6 hrs)		
PET 4640 Adapted PE	3		
PET 4351C Appl Exercise & Human Physiology	3		

Senior Year

Fall	(12 hrs)	Spring	(13 hrs)
PET 3940 Internship I	3	PET 4943 Internship II	10
PET 4050C Motor Development & Learning	3	PET 4401 Admin & Evaluation in PE 3	
PET 4710 Teaching Physical Ed K-12	3		
PET 4550 Fitness Assess & Exercise	3		

PHYSICS (B.S.)

College of Sciences
Physics Department, MAP 310, 407-823-2325
E-mail: physics@ucf.edu
<http://www.physics.ucf.edu>
Chair: Talat S. Rahman, 407-823-2325

Physics majors can select from five distinct tracks to earn their physics degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding among these tracks.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+2 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36.)

A. Communication Foundations	
1. Select ENC 1101 and ENC 1102	6 hrs
2. Prefer SPC 1016	3 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Select MAC 2311	4 hrs
2. Prefer COP 3223	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	
1. Select PHY 2048 & L (PR:MAC 2311)	4 hrs
2. Select a listed course	3 hrs

2. Common Program Prerequisites (20 hrs)

CHM 2045C*	Chem Fund I	4 hrs
CHM 2046&L	Chem Fund II & lab	4 hrs
MAC 2311	Calculus with Analy Geo I	GEP
MAC 2312	Calculus with Analy Geo II	4 hrs
MAC 2313	Calculus with Analy Geo III	4 hrs

PHY 2048&L	Physics Engr & Sci I & Lab	GEP
PHY 2049&L	Physics Engr & Sci II & Lab	4 hrs

*CHM 2040C plus CHM 2041C can substitute for CHM 2045C

*See Transfer Notes for other possible substitutes

3. Core requirements (all tracks) (36 hrs)

MAP 2302	Differential Equations	3 hrs
PHY 3101	Physics Engr & Sci III	3 hrs
PHZ 3113	Intro to Theoretical Meth of Phys	3 hrs
PHY 3220	Mechanics I	3 hrs
PHY 3513	Thermal and Statistical Physics	3 hrs
PHY 3323	Electricity and Magnetism I	3 hrs
PHY 4324	Electricity and Magnetism II	3 hrs
PHY 4604	Wave Mechanics I	3 hrs
PHY 4605	Wave Mechanics II	3 hrs
PHY 4912	Directed Independent Research	3 hrs

(should be in the area of specialization)

Laboratory requirements		
PHY 3802L	Intermediate Physics Lab	3 hrs
Select one of the following		3 hrs
PHY 3752C	Physics of Sci Instruments	
PHY 3722C	Physics Laboratory: Electronics	

4. Specialization: select one specialization

4.1 General Physics Specialization (18 hrs)

PHY 4803L	Advanced Physics Lab	3 hrs
	Upper Division Restricted Electives	6 hrs
	PHY, PHZ, or AST courses	

Directed Electives 9 hrs

Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Chemistry, Computer Science, or Engineering.

4.2 Materials Physics Specialization (18 hrs)

Choose one lab from:		
PHY 4803L	Advanced Physics Lab	3 hrs
EEL 5355C	Fabrication of Solid State Devices	4 hrs

Choose nine hours from:

EEL 3306	Semiconductor Devices	3 hrs
EGN 3365	Struct and Properties of Materials	3 hrs
EMA 4413	Electronic Properties of Materials	3 hrs
CHM 3411L	Physical Chemistry Laboratory	2 hrs
PHZ 5405	Condensed Matter Physics	3 hrs
EEL 5352	Semiconductor Mat & Device Char	3 hrs

Directed Electives 6 hrs

Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

4.3 Optics and Lasers Specialization (18 hrs)

PHY 4424	Optics	3 hrs
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Choose six hours from:

EEL 4440	Optical Engineering	3 hrs
PHY 4445	Lasers	3 hrs
OSE 5203	Fundamentals of Applied Optics	3 hrs
OSE 5312	Fundamentals of Optical Science	3 hrs
OSE 5414	Fund. of Optoelectronic Devices	3 hrs

Directed Electives 9 hrs

Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

4.4 Computational Physics Specialization (19 hrs)

PHZ 3151	Computer Methods in Physics	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
COT 4500	Numerical Calculus	3 hrs

Directed Electives 6 hrs

Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

4.5 Astronomy Specialization (18 hrs)

AST 2002	Astronomy	3 hrs
AST 3722C	Techniques Observational Astron	3 hrs

Choose two of the following:

AST 3110	Solar System Astronomy	3 hrs
AST 3211	Stellar Astrophysics	3 hrs
AST 3402	Galaxies and Cosmology	3 hrs

Directed Electives 6 hrs

Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

5. Departmental Exit Requirements

- Students must have at least a 2.0 GPA in all courses counted toward the major

UCF Degree Programs

- Students will be required to take a nationally normed test in Physics during their last semester
- Students will have an exit interview in their last semester with a representative of the Physics Undergraduate Committee
- Computer Competency met by COP 3223 or a departmental exam
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Semester Hours Required 120 hrs

Related Programs: Engineering, Mathematics

Related Minors: Mathematics, Physics, Astronomy

Transfer Notes:

- Lower Division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- CHM 2045C*: may use CHM 1040 plus CHM 1041 or CHM 2040C plus CHM 2041C

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Chem test See catalog	0
Math test See catalog	0

Freshman Year

Fall	Spring
ANT 2000* req# 1D2-GEP	3 ENC 1102 Composition II
ENC 1101 Composition I	3 PHY 2048 Phy for Eng Sci I
MAC 2311 Calc Anal Geo I	4 PHY 2048L Phy L Eng Sci I
CHM 2045C Chem Fund I	4 CHM 2046 Chemistry Fund II
	CHM 2046L Chemistry Fund L
	MAC 2312 Calc Anal Geo II

Sophomore Year

Fall	Spring
COP 3223 Intro to Prog C	3 MUL 2010* req# 1B2-GEP
HUM 2210* req# 1B1-GEP	3 MAP 2302 Dif Equations
SPC 1016 Fund Tech Pres	3 PHY 3101 Phy Eng Sci III
MAC 2313 Calc Anal Geo III	4 PHY 3802L Int Physics L
PHY 2049 Phy for Eng Sci II	3 PHZ 3113 Intro Ther Meth of
PHY 2049L Phy L Eng Sci II	1

Junior Year

Fall	Spring
ARH 2050* req# 1B3-GEP	3 POS 2041* req# 1D1-GEP
PHY 3220 Mechanics I	3 PHY 3752C* req# 3-Core
PHY 3323 Elect Mag I	3 PHY 4324 Elect Mag II
PHY 4604 Wave Mechan I	3 PHY 4605 Wave Mechanics II
COP 3502C* req# 4-Spec	3 COP 3503C* req# 4-Spec

Senior Year

Fall	Spring
PHY 3513 Thermal & Stat Phy	3 BSC 1005* req# 1E2-GEP
PHY 4912 Ind Research	3 PHY 4424* req# 4-Spec
COT 4500* req# 4-Spec	3 PHZ 3151* req# 4-Spec
PHY 3722C Physics L Elect	3 Physics test See catalog.
Elective* Check restrictions	3 Elective* Check restrictions
	3 Elective* Check restrictions
	3 Phys Test-National normed

POLITICAL SCIENCE (B.A.)

College of Sciences

Political Science Department, CNH 415, 407-823-2608

<http://www.cos.ucf.edu/politicalscience>

E-mail: politics@ucf.edu

Chair: R. Handberg, 407-823-2608

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	
1. Select ENC 1101 & ENC 1102	6 hrs
2. Prefer SPC 1600	3 hrs
B. Cultural and Historical Foundations	
1. Prefer AMH 2010	3 hrs
2. Select from GEP B.2 list	3 hrs
3. Prefer AMH 2020	3 hrs
C. Mathematical Foundations	6 hrs
1. Prefer MGF 1106 (may substitute a higher level math)	3 hrs
2. Prefer STA 2014C or STA 1060C	3 hrs
D. Social Foundations	
1. Select POS 2041	3 hrs
2. Select from GEP D.2 list	3 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (3 hrs)

POS 2041*	American National Government	GEP
POS 3703*	Scope & Methods of Pol Sci	3 hrs

*See Transfer Notes for possible substitutes

3. Core (6 hrs)

POS 2041	American National Government	CPP
POS 3703	Scope & Methods of Pol Sci	CPP

4. Upper Division Restricted Electives (30 hrs)

Choose one of the following emphases

Emphasis 1: American Politics and Policy

Five courses from area A	15 hrs
Two courses from area B	6 hrs
Two courses from area C	6 hrs
One additional course from any area	3 hrs

Emphasis 2: International Relations-Comparative Politics

Two courses from area A	6 hrs
*Five courses from area B	15 hrs
Two courses from area C	6 hrs
One additional course from any area	3 hrs

*No more than two of the following courses may be considered part of area B credit: INR 4401, INR 4402, INR 4404.

Emphasis 3: Prelaw

Please see Political Science - Prelaw for the emphasis requirements.

Emphasis 4: International Studies

Please see Political Science - International Studies for the emphasis requirements.

AREAS OF SPECIALIZATION

A. American Politics and Policy

POS 3122	State Government & Public Policy
POS 3173	Southern Politics
POS 3182	Florida Politics
POS 3233	Public Opinion
POS 3235	Mass Media and Politics
POS 3258	Politics in Film
POS 3273	Voting and Elections
POS 3413	The American Presidency
POS 3424	Congress and the Legislative Process
POS 3443	Political Parties and Processes
POS 3463	Interest Groups
POS 3627	Cultural Pluralism and the Law
POS 4074	Latino Politics
POS 4142	Metropolitan Politics
POS 4204	Political Behavior
POS 4246	Political Socialization
POS 4284	Judicial Process and Politics
POS 4412	Presidential Campaigning
POS 4603	American Constitutional Law I
POS 4604	American Constitutional Law II
POS 4622	Politics and Civil Rights
POS 4742	Geographic Information Systems for the Political Scientist
PUP 4204	Sustainability
PUP 4209	Urban Environmental Policy
PUP 3203	Environmental Politics
PUP 3314	Minorities in American Politics
PUP 3325	Women and Political Behavior
PUP 4003	American Public Policy
PUP 4204	Sustainability
PUP 4323	Women and Public Policy
POS 4742	GIS for the Political Scientist
PUP 4404	Education and Politics
PUP 4503	Government and Science
PUP 4602	Politics of Health
PUP 4744	Government and Business
PUP 4931	Topics in Public Policy

B. International Relations and Comparative Government

CPO 3034	Politics of Developing Areas
CPO 3103	Comparative Politics
CPO 3104	Politics of Western Europe
CPO 3132	Canadian Studies
CPO 3403	Politics of the Middle East
CPO 3614	Politics of Eastern Europe
CPO 4047	Politics of the NAFTA Region
CPO 4062	Comparative Judicial Processes
CPO 4074	Political Economy
CPO 4101	Politics of the European Union
CPO 4123	Government and Politics of Great Britain
CPO 4303	Comparative Latin American Politics
CPO 4445	Comparative Political Parties
CPO 4553	Politics of Japan
CPO 4643	Government and Politics of Russia
CPO 4710	Women in Comparative Perspective
CPO 4754	Comparative Political Institutions
CPO 4784	Political & Economic Inequality in Comparative Perspective
GEO 3471	World Political Geography
IDS 4315	Global Perspectives
INR 2002	International Relations-Theory & Practice
INR 3016	Global Political Issues
INR 3250	Politics of Pan-Africanism
INR 3253	International Politics of Africa
INR 4011	Politics of Globalization
INR 4030	Diplomacy
INR 4035	International Political Economy
INR 4054	Global Politics of Energy
INR 4060	Causes of War
INR 4064	Changing Nature of War
INR 4074	Immigration Policy
INR 4075	Human Rights Policy
INR 4076	Global Drug Policy
INR 4085	Women, Gender, and Globalization
INR 4102	American Foreign Policy
INR 4104	Topics and Cases in American Foreign Policy
INR 4114	American Security Policy
INR 4115	Strategic Weapons and Arms Control
INR 4224	Contemporary International Politics of Asia
INR 4225	The Vietnam War
INR 4243	International Politics of Latin America
INR 4350	Global Environmental Politics
INR 4364	The Intelligence Community
INR 4304	Issues in International Public Policy
INR 4335	Coercion in International Politics
INR 4401	International Law I
INR 4402	International Law II
INR 4404	Space Law

INR 4502	International Organizations
INR 4714	Politics of International Trade Policy
POS 3253	Contemporary Revolution & Political Violence
PUP 3508	Space Studies
PUP 3014	Comparative Public Policy
INR 4351	International Environmental Law
PUP 4510	Space Policy

C. Political Theory

INR 4603	International Relations Theory
POS 4206	Political Psychology
POT 3204	American Political Thought
POT 3302	Modern Political Ideologies
POT 4003	Political Theory
POT 4025	Ancient, Medieval and Early Modern Political Philosophy
POT 4054	Modern Political Philosophy
POT 4066	Contemporary Political Theory
POT 4109	Politics and Literature
POT 4345	Pan-Africanist Thought
POT 4305	The State, Society, and The Individual
POT 4314	Contemporary Democratic Theory
POT 4331	Utopia/Dystopia
POT 4414	Marxist Political Theory
POT 4632	Religion and Politics

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Internship Program: Political Science

For students who excel, a limited number of internship may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Economics, History

Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if take prior to transferring to UCF:

- POS 2041* and POS 3703*: Although state mandated CPP accept any six hours of introductory Political Science classes, both POS 2041 and POS 3703 are required in the major and still must be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor

UCF Degree Programs

for alternate, new or more appropriate selections.

Freshman Year

Fall		Spring	
AMH 2010 U S His 1492 1877	3	AMH 2020 U S His 1877 Pres	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	REL 2300* req# 1B3-GEP	3
POS 2041 Amer National Gvt	3	SPC 1600* req# 1A3-GEP	3
PSY 2012* req# 1D2-GEP	3	STA 2014C Prin of Statistics	3

Sophomore Year

Fall		Spring	
BSC 1005* req# 1E2-GEP	3	PSC 1121* req# 1E1-GEP	3
POS 4284* req# 4A-ResElec	3	POS 3703 Meth of Pol Sci	3
CPO 3103* req# 4B-ResElec	3	Elective* Check restrictions	3
Elective* Check restrictions	3	SPN 1121* req# Lang/Elect	4
SPN 1120* req# Lang/Elect	4		

Junior Year

Fall		Spring	
POS 3233* req# 4A-ResElec	3	POS 4604* req# 4A-ResElec	3
POS 3424* req# 4A-ResElec	3	Elective* Check restrictions	3
POS 4603* req# 4A-ResElec	3	Elective* Check restrictions	3
CPO 3034* req# 4B-ResElec	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

Senior Year

Fall		Spring	
POT 3204* req# 4C-ResElec	3	POS 3173* req# 4 A,B,C	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	4	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

POLITICAL SCIENCE (B.A.) - INTERNATIONAL STUDIES TRACK

College of Sciences

Political Science Department, CNH 415, 407-823-2608

<http://www.cos.ucf.edu/politicalscience>

E-mail: politics@ucf.edu

Contact: R. Handberg, 407-823-2608

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	
1. Prefer WOH 2012	3 hrs
2. Select from GEP B.2 list	3 hrs
3. Prefer WOH 2022.3 hrs	
C. Mathematical Foundations	6 hrs
1. Prefer MGF 1106 (may substitute a higher level math)	3 hrs
2. Prefer STA 2014C or STA 1060C	3 hrs
D. Social Foundations	
1. Select POS 2041	3 hrs
2. Select from GEP D.2 list	3 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites

(3 hrs)

INR 2002*	International Relations-Theory and Practice	3 hrs
POS 2041*	American National Government	GEP

*See Transfer Notes for possible substitutes

3. Core Requirements

(18 hrs)

INR 2002	International Relations-Theory and Practice	CPP
POS 2041	American National Government	GEP
ECO 2013	Principles of Macroeconomics	3 hrs
GEO 3471	World Political Geography	3 hrs

IDS 4315	Global Perspectives	3 hrs
CPO 3103	Comparative Politics	3 hrs
POS 3703	Scope and Methods of Political Science	3 hrs
INR 4603	International Relations Theory	3 hrs

4. Restricted Electives

(18 hrs)

Note: Students must meet all prerequisites before taking these classes.

Regional

9 hrs

CPO 3034	Politics of Developing Areas
CPO 3104	Politics of Western Europe
CPO 3403	Politics of the Middle East
CPO 3614	Politics of Eastern Europe
CPO 4062	Comparative Judicial Process
CPO 4074	Political Economy
CPO 4101	Politics of European Union
CPO 4123	Government and Politics of Great Britain
CPO 4303	Comparative Latin American Politics
CPO 4553	Politics of Japan
CPO 4643	Government and Politics of Russia
CPO 4710	Women in Comparative Politics
CPO 5334	Contemporary Politics of the Mayan Region
POS 3253	Contemporary Revolution and Political Violence

Functional

9 hrs

INR 3253	International Politics of Africa
INR 4030	Diplomacy
INR 4350	Global Environmental Politics
INR 4054	Global Politics of Energy
INR 4074	Immigration Policy
INR 4075	Human Rights Policy
INR 4076	Global Drug Policy
INR 4304	Issues in International Public Policy
INR 4364	The Intelligence Community
INR 4714	Politics of International Trade Policy
INR 4364	The Intelligence Community
INR 4603	International Relations Theory
INR 4035	International Political Economy
INR 4085	Women, Gender, and Globalization
INR 4102	American Foreign Policy
INR 4104	Topics in Amer Foreign Policy
INR 4114	American Security Policy
INR 4115	Strategic Weapons and Arms Control
INR 4224	Contemporary International Politics of Asia
INR 4243	International Politics of Latin America
INR 4304	Issues in International Public Policy
INR 4335	Coercion in International Politics
INR 4351	International Environmental Law
INR 4401	International Law I
INR 4402	International Law II
INR 4404	Space Law
INR 4502	International Organizations
INR 4941	Internship (a maximum of 3 hours)
PUP 4503	Government and Science
PUP 4510	Space Policy

Other courses may be substituted with the chair's approval.

5. Required minor

(18 hrs min)

Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, or Spanish. **Note:** No more than one course may be used to fulfill both this track and the minor.

6. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements

(0-14 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to four semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives

(variable)

Select primarily from upper level courses, with departmental advisors approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed

- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Economics, History

Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- POS 2041* and INR 2002*: Although state mandated CPP accept any six hours of introductory Political Science classes, both POS 2041 and INR 2002 are required in the major.

POLITICAL SCIENCE - PRELAW TRACK (B.A.)

College of Sciences

Political Science Department, CNH 415, 407-823-2608

<http://www.cos.ucf.edu/politicalscience>

E-mail: politics@ucf.edu

Contact: R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the Department's prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program **(36 hrs)**

- | | |
|--|-------|
| A. Communication Foundations | |
| Select ENC 1101, ENC 1102 | 6 hrs |
| Select SPC 1600 | 3 hrs |
| B. Cultural and Historical Foundations | |
| Prefer AMH 2010 | 3 hrs |
| Prefer AMH 2020 | 3 hrs |
| Select from GEP B,2 list | 3 hrs |
| C. Mathematical Foundations | |
| Select MGF 1106 (may substitute a higher level math) | 6 hrs |
| Prefer STA 2014C <i>or</i> STA 1060C | 3 hrs |
| D. Social Foundations | |
| Select POS 2041 American National Gvt | 3 hrs |
| Select one of the three choices | 3 hrs |
| E. Science Foundations | 6 hrs |

2. Common Program Prerequisites **(3 hrs)**

- | | |
|---------------------------------|-----|
| POS 2041* American National Gvt | GEP |
|---------------------------------|-----|

POS 3703*	Scope & Methods of Pol Sci	3 hrs
*See Transfer Notes for possible substitutes		

3. Core **(0 hrs)**

POS 2041	American National Government	CPP
POS 3703	Scope & Methods of Pol Sci	CPP

4. Upper Division Restricted Electives **(30 hrs)**

- | | | |
|--|--------------------------------|--------|
| POS 4284 | Judicial Process and Politics | 3 hrs |
| 4.1 Select one of the following: | | |
| POS 4603 | American Constitutional Law I | 3 hrs |
| POS 4604 | American Constitutional Law II | |
| INR 4401 | International Law I | |
| INR 4402 | International Law II | |
| 4.2 Select one (See listing under Political Science) | | |
| Five courses from area A <i>and</i> | | 15 hrs |
| Two courses from area B | | 6 hrs |
| <i>or</i> | | |
| Two courses from area A <i>and</i> | | 6 hrs |
| Five courses from area B | | 15 hrs |
| 4.3 Select one course from area C 3 hrs | | |

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements **(0-8 hrs)**

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives **(variable)**

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Some suggested electives Include:

- | | |
|----------|--|
| ACG 2021 | Principles of Financial Accounting |
| ACG 2071 | Principles of Managerial Accounting |
| BUL 3130 | Legal and Ethical Envt of Business |
| PLA 3104 | Legal Research |
| PLA 3155 | Legal Writing |
| PHI 2101 | Critical Thinking |
| MHF 3302 | Logic and Proof in Mathematics |
| ENC 3241 | Writing for the Technical Professional |
| ENC 3250 | Professional Writing |
| LIN 4105 | History of the English Language |
| | Internship Program: Political Science |

For students who excel, a limited number of internship may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Economics, History, Philosophy

Related Minors: Economics, History, English, Philosophy

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- POS 2041* and POS 3703*: Although state mandated CPP

UCF Degree Programs

accept any six hours of introductory Political Science classes, both POS 2041 and POS 3703 are required in the major and still must be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall		Spring	
AMH 2010 U S His 1492 1877	3	AMH 2020 U S His 1877 Pres	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	REL 2300* req# 1B3-GEP	3
POS 2041 Amer National Gvt	3	SPC 1600* req# 1A3-GEP	3
PSY 2012* req# 1D2-GEP	3	STA 2014C Prin of Statistics	3

Sophomore Year

Fall		Spring	
BSC 1005* req# 1E2-GEP	3	PSC 1121* req# 1E1-GEP	3
POS 4284 Jud Process Pol	3	POS 3703 Meth of Pol Sci	3
CPO 3103* req# 4.2B-RE	3	POS 4604* req# 4.1-ResEle	3
Elective* Check restrictions	3	Elective* Check restrictions	3
SPN 1120* req# Lang/Elect	4	SPN 1121* req# Lang/Elect	4

Junior Year

Fall		Spring	
POS 4603* req# 4.1-ResEle	3	POS 3173* req# 4.2A-RE	3
POS 3233* req# 4.2A-RE	3	Elective* Check restrictions	3
POS 3424* req# 4.2A-RE	3	Elective* Check restrictions	3
CPO 3034* req# 4.2B-RE	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

Senior Year

Fall		Spring	
POS 3122* req# 4.2A-RE	3	Elective* Check restrictions	3
POT 3204* req# 4.3C-RE	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	4
Elective* Check restrictions	3		

PSYCHOLOGY (B.S.)

College of Sciences

Psychology Department, PSY 301, 407-823-2216

<http://www.psych.ucf.edu/>

E-mail: psychology@ucf.edu

Contact: Psychology Advising Center, PSY 250, 407-823-2219;
R. Dipboye, 407-823-2216

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a "C" (2.0) in each course counted toward the core requirements, restricted electives, and diversity courses
- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with the Department Director of Undergraduate Advising, prior to applying for graduation (before registration for the final term).
- Graduating seniors should complete the senior exit survey
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in Psychology:

Additional Requirements (6 hrs)

- The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology
- Application and admission through the department
- Fulfill University requirements for Honors in the Major
- Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a "B" (3.0)
- Have an overall UCF GPA above 3.2

- PSY 4903H Directed Honors Readings 3 hrs
- PSY 4970H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (36 hrs)

(Note: Certain courses may be selected in the GEP for this major bringing the total GEP hours to more than 36)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations
 - 1. Prefer MGF 1106 (may substitute a more advanced math) 3 hrs
 - 2. Select STA 2023 or STA 2014C 3 hrs
- D. Social Foundations
 - 1. Select one of the listed choices 3 hrs
 - 2. Select PSY 2012 3 hrs
- E. Science Foundations
 - 1. Select one of the listed choices 3 hrs
 - 2. Select BSC 1005 (or BSC 2010C if additional Biology courses are planned) 3 hrs

*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)

- BSC 1005* Biological Principles *or* GEP
BSC 2010C (if additional Biology courses are planned)
- PSY 2012* General Psychology GEP
- DEP 2004* Developmental Psychology 3 hrs
- STA 2023* Statistical Methods I (or STA 2014C) GEP

*See Transfer Notes for possible substitutes

3. Core requirements (15 hrs)

- BSC 1005* Biological Principles (or BSC 2010C) GEP
- PSY 2012 General Psychology GEP
- STA 2023* Statistical Methods I (or STA 2014C) GEP
- PSY 3204 Statistical Methods in Psychology 4 hrs
- PSY 3213C Research Methods in Psychology 5 hrs
- PSB 3002 Physiological Psychology 3 hrs
- PSY 4604 History and Systems of Psychology 3 hrs

4. Restricted Electives (27-32 hrs)

A. Experimental. Select two of the following: 6-8 hrs

- EXP 3404 Basic Learning Processes
- EXP 3204C Perception
- EXP 3604C Cognitive Psychology
- LIN 3703 Psychology of Oral Communication
- PSY 4215C Advanced Research Methods in Psychology

B. Personality/Social. Select one of the following: 3 hrs

- PPE 3003 Personality Theories
- SOP 3004 Social Psychology

C. Developmental. Select one of the following: 3 hrs

- DEP 2004 Developmental Psychology
- DEP 3202 Psychology of Exceptional Children
- DEP 3464 Psychology of Aging

D. Diversity. Select one of the following: 3 hrs

- CLP 3184 Women's Mental Health
- SOP 3742 Psych of Women
- SOP 3723 Cross Cultural Psychology
- SOP 3724 Psychology of Racial Prejudice
- SOP 3784 Psychology of Diversity

E. Applied. Select one of the following courses: 3 hrs

- CLP 3302 Clinical Psychology
- EXP 3250 Principles of Human Factors Psychology
- INP 3004 Industrial/Organizational Psychology

F. Psychology Elective. Select three additional courses taught by the Psychology department 9-12 hrs

Note: INP 3141C, INP 3951, PSY 3905, PSY 4906, PSY 4912 will not fulfill this requirement.
PSY 3951 will not fulfill this requirement without prior approval.

5. Science Electives (6-8 hrs)

- Select two of the following from outside Psychology (See course listing for prerequisites)
- AST 2002 Astronomy (satisfies GEP)
 - ANT 2511 The Human Species
 - PSC 1121 Physical Science (satisfies GEP)
 - PHY 2053C College Physics I (satisfies GEP)
 - CHM 1020 Concepts in Chemistry (satisfies GEP)
 - COP 3223 Introduction to Programming with C
 - COP 3502C Computer Science I
 - COP 3503C Computer Science II
 - ENC 3241 Writing for the Technical Professional or
 - ENC 3211 Theory and Practice of Technical Writing

MAC 2233	Concepts of Calculus or
MAC 2253	Applied Calculus I
PCB 3063 & L	Genetics with lab
PCB 3703C	Human Physiology
STA 4102	Computer Process of Stat Data
STA 4163	Statistical Methods II
STA 4164	Statistical Methods III
ZOO 3733C	Human Anatomy

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course in the core requirements, restricted electives and science elective.
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3213C
- Before applying to graduate, the CLAST must be completely satisfied

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in either a foreign language or American Sign Language. Standardized examinations may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice

Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- BSC 1005 or BSC 2010C: any lower level BSC course or ZOO X010. However, BSC 2010C is a prerequisite for all subsequent Biology courses and thus may need to be taken in order to qualify for other Biology courses used as science electives for the BS degree in psychology.
- Although CPP permits any lower level STA course, STA 2023 or STA 2014C is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004: any lower level psychology course. However, a DEP course must be taken to satisfy the restricted elective 4c.

Suggested Plan of Study:

One of numerous possible plans of study; see program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall		Spring	
PHI 2010* req# 1B3-GEP	3	BSC 1005 Biological Principles*	3
ENC 1101 Composition I	3	ENC 1102 Composition II	3
MGF 1106* req# 1C1-GEP	3	POS 2041* req# 1D1-GEP	3
PSC 1121* req# 1E2-GEP	3	SPC 1016* req# 1A3-GEP	3
PSY 2012 General Psychology	3	STA 2023* Statistical Methods I	3

Sophomore Year

Fall		Spring	
EUH 2000* req# 1B1-GEP	3	EUH 2001* req# 1B2-GEP	3
DEP 2004* req#4C-ResElect	3	SPA 2613* req# Lang/Elect	4
SPA 2612* req# Lang/Elect	4	Elective* Check restrictions	4
AST 2002* Astronomy	3	Elective* Check restrictions	3
Elective* Check restrictions	2		

Junior Year

Fall		Spring	
PSB 3002 Phys Psychology	3	PSY 3213C Res Meth Psych	5
PSY 3204 Stat Meth in Psych	4	Psych Elective* Check restrictions	3
CLP 3302* req#4E-ResElect	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3

Senior Year

Fall		Spring	
EXP 3204C* req# 4A-ResElect	4	PSY 4604 Hist & Sys Psych	3
SOP 3004* req#4B-ResElect	3	SOP 3723* req#4D-ResElect	3
ANT 2511* req#5-ResElect	3	Psych Elective* Check restrictions	3
Elective* Check restrictions	3	Elective* Check restrictions	3
Elective* Check restrictions	3		

PUBLIC ADMINISTRATION (B.A., B.S.)

College of Health and Public Affairs

HPA2 238, 407-823-2604

<http://www.cohpa.ucf.edu/pubadm/>

Chair: Dr. Mary Ann Feldheim;

Undergraduate Coordinator: Robert Morin

Admission Requirements none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor on a regular basis.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College and should usually be completed in the first 60 hours.
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below).
- No transfer course will be accepted with a grade lower than a "C" (2.0).
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. MAC 1105 or MGF 1106	
2. Select CGS 1060C	
D. Social Foundations (nine hours required for major)	6 hrs
1. Select POS 2041	
2. PSY 2012, SYG 2000 or ANT 2000	
E. Science Foundations	6 hrs

2. Common Program Prerequisites (3 hrs)

CGS 1060C	Intro to Computer Science	GEP
POS 2041	American National Government	GEP
ECO 2013	Principles of Macroeconomics	3 hrs

3. Core Requirements (18 hrs)

PAD 3003	Public Admin. in American Society	3 hrs
PAD 4034	Administration of Public Policy	3 hrs
PAD 4104	Administrative Theory	3 hrs
PAD 4204	Fiscal Management	3 hrs
PAD 4414	Public Personnel Administration	3 hrs
PAD 4720	Survey Research in Public Administration	3 hrs

4. Upper Division Restricted Electives (39 hrs)

Public Administration electives are required as follows:

- *Double Majors*, those who complete a PAD major, and those of

UCF Degree Programs

another UCF major, must take a minimum of 15 hrs PAD prefixed electives;

- Those who complete a recognized UCF **minor** in a discipline outside Public Administration must take a minimum of 18 hrs PAD prefixed electives;
- All other PAD majors must complete at least 21 hrs of PAD prefixed electives at the 3000 level or higher within the restricted elective area;
- Additional electives can be taken from other allied supporting fields such as accounting, legal studies, communications, computer science, criminal justice, economics, political science, social work, sociology and statistics. Courses should be selected with the assistance of an advisor, and must be upper division (3000-4000 level).

5. Departmental Exit Requirements

The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3 and 4).

6. B.A./B.S. Option 6 hrs

- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level.
- Students pursuing the B.S. degree must complete two additional upper level technical courses (six credit hours) from a list approved by the Department.

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level, beyond University requirement.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Accounting, Communications, Economics, Legal Studies, Computer Science, Social Work, Political Science, Criminal Justice, Health Services Administration, Management

Related Minors: Communications, Business, Economics, Political Science, Legal Studies, Criminal Justice

Transfer Notes:

Intro. to Computer Science (CGS 1060C) or any Computer Science course	3
Economics I (ECO 2013) or any Macroeconomics course	3
American National Government (POS 2041) or any course in American National Government	3

Tentative Course Schedule for Entering Freshmen

Freshman Year*			
Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C	3	MGF 1106	3
POS 2041	3	PSY 2012 <i>or</i> SYG 2000	3
One Course: ARH 2050,	3	<i>or</i> ANT 2000	
ARH 2051, MUL 2010,		CHM 1020 <i>or</i> PSC 1121	3
THE 2000, REL 2300,		<i>or</i> AST 2002	
PHI 2010, LIT 2110, LIT 2120		Elective	3
PAF 2102	2		
Sophomore Year			
Fall	15 hrs	Spring	15 hrs
SPC 1600	3	PAD 3003	3
EUH 2000 <i>or</i> HUM 2210	3	EUH 2001 <i>or</i> WOH 2022 <i>or</i>	3
<i>or</i> AMH 2010 <i>or</i> WOH 2012		HUM 2230 <i>or</i>	
ECO 2013	3	AMH 2020	
BSC 1005 <i>or</i> MCB 1310	3	Elective	3
<i>or</i> GLY 1030 <i>or</i> GEO 1200		Elective	3
<i>or</i> ANT 2511		Elective	3
Elective	3		

Junior Year			
Fall	15/16 hrs	Spring	15/16 hrs
PAD 4104	3	PAD 4034	3
PAD 4414	3	PAD 4204	3
PAD Elective	3	PAD 4720	3
Restricted Elective	3	PAD Elective	3
(Foreign Lang I) <i>or</i> B.S. option	3/4	(Foreign Lang II) <i>or</i> B.S. option	3/4

Senior Year			
Fall	15 hrs	Spring	12/15 hrs
PAD Elective	3	PAD Internship	3/6
PAD Elective	3	PAD Elective	3
Restricted Elective	3	Restricted Elective	3
Restricted Elective	3	Elective	3
Restricted Elective	3		

Minors

The six PAD required core courses for the major will be required of the PAD minor. These are PAD 3003, PAD 4414, PAD 4104, PAD 4204, PAD 4034, and PAD 4720.

The Department of Public Administration offers minors in Emergency Management and Homeland Security, Urban and Regional Planning, Public Administration, and American Humanics, and also offers a certificate in Nonprofit Management.

RADIO-TELEVISION (B.A.)

College of Sciences

Nicholson School of Communication

COM 242, 407-823-2878

E-mail: radiotv@ucf.edu

Contact: Dr. W. Joe Hall

Admission Requirements

Limited Access

- Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are:
 - October 1 to be admitted the next Spring term
 - February 1 to be admitted the next Summer term
 - July 1 to be admitted the next Fall term
- Attain an overall minimum 2.25/4.00 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies each term with the quality of applicants, and during previous years, ranged upward from a minimum of 2.9.
- Meet a grammar proficiency standard ("B" grades or better in ENC 1101 and ENC 1102 or pass the grammar proficiency exam.)
- Receive a positive evaluation of other factors specified by the School.

Degree Requirements

- Students who change degree programs (other than from Radio/TV Pending) and select this major must adopt the most current catalog.
- Students may complete an internship off campus in a professional broadcast, production, or corporate operation with advisor's approval
- Internship credit may be used in this major pending departmental permission
- Co-op credit may be used in this major pending approval from an RTV advisor
- Students should consult with a School advisor
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Science).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 (or 43 if a GEP speech class was taken at UCF) of the 120 hours may be taken within the Nicholson School of Communication
- Radio TV majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.
- Students seeking to change tracks once accepted into the major,

- must re-apply to the RTV major under the new, desired track
- All students are required to pay a fee for equipment insurance
- A maximum of 3 credit hours of internship may be earned in one semester. Internship credit, plus all other hours taken within the school, must not exceed 40 hours.
- A maximum of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internship are available during "C" term only.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

ADV 3008
PUR 4000
COM 3110
ENC 3250

Principles of Advertising
Public Relations
Business & Prof. Comm.
Professional Writing

1. UCF General Education Program (36 hrs)

- A. Communication Foundations (36 hrs)
Select ENC 1101 & ENC 1102 6 hrs
Select SPC 1600 *or* SPC 1016 3 hrs
- B. Cultural and Historical Foundations 3 hrs
- C. Mathematical Foundations 9 hrs
Prefer MGF 1106 (may substitute a higher level math) 3 hrs
Select CGS 2100C 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (0 hrs)

- Select one course (0 hrs)
SPC 1016 Fund of Technical Presentations *or*
SPC 1600 Fund Oral Communication

3. Core requirements (all areas) (21 hrs)

- SPC 1016 or SPC 1600 GEP (21 hrs)
- a. Select one of the following: 3 hrs
CGS 2100C Computer Fundamentals of Business
CGS 2585C Desktop/Internet Publishing
CGS 3175 Internet Applications
- b. Complete all the following:
RTV 2102 Writing for the Electronic Media 3 hrs
RTV 3200 Production Fund & Aesthetics of Electronic Media 3 hrs
RTV 3007 Development and Structure of Elect Media and New Technology 3 hrs
MMC 3200 Mass Communication Law 3 hrs
RTV 4403 Elec Media, Tech, and Society 3 hrs
MMC 3420 Mass Media Research Meth 3 hrs

4. Specialization: Select one area

4.1 Production (18 hrs)

- Select 18 hours from the following:
RTV 3210C Audio Production I 4 hrs
RTV 3228C Studio Television Production 4 hrs
RTV 3223C Lighting for Video 3 hrs
RTV 3260C Single Camera Video Prodn & Edit 4 hrs
RTV 3263C Advanced Video Post-Production 3 hrs
RTV 3283C Production of Int. Multimedia 3 hrs
RTV 3942L Practicum 1-3 hrs
RTV 4211C Audio Production II 3 hrs
RTV 4280C Webcasting I 3 hrs
RTV 4281C Webcasting II 3 hrs
RTV 4206C Television Directing 4 hrs
RTV 4271C Radio Production & Programming 3 hrs
RTV 4941 Internship 1-3 hrs

4.2 Broadcast Journalism (22 hrs)

- a. Complete all the following courses:
RTV 3260C Single Camera Video Prodn & Edit 4 hrs
RTV 3301 Electronic Journalism I 3 hrs
RTV 3304 Electronic Journalism II 3 hrs
RTV 4320C Television News 4 hrs
MMC 4602 Contemporary Media Issues 3 hrs
- b. Complete 5 hours from the following: 5 hrs
JOU 3004 History of American Journalism
RTV 3234C Broadcast Announcing and Performance
RTV 4941 Internship (3 hrs max)
RTV 4700 Regulation of Broadcasting
RTV 4906 Independent Studies (3 hrs max)
RTV 4322C Advanced Television News

4.3 Broadcast Generalist (18 hrs)

- a. Select 12 hours from the following: 12 hrs
RTV 3234C Broadcast Announcing & Performance
RTV 4271C Radio Production & Programming
RTV 4700 Regulation of Broadcasting
RTV 4800 Broadcast Management
ADV 4103 Radio-TV Advertising
CMC 4240 Corporate/Institutional Video
COM 3330 Computer Mediated Comm.
MMC 4263 New Media Technologies
- b. Select 6 hours from the following: 6 hrs

5. Required Minor (18 hrs minimum)

Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

6. School Exit Requirements

- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Achieve an overall "C" GPA (2.0) in UCF Radio/TV courses used to satisfy the major.
- Computer competency met by CGS 2100C or departmental assessment.
- Before applying to graduate, the CLAST must be completely satisfied

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre

Related Minors: Digital Media, Film, Marketing, Theatre

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

RADIOLOGIC SCIENCES (B.S.)

College of Health and Public Affairs

HPA2 210, 407-823-2747

<http://www.cohpa.ucf.edu/health.pro/radbs.cfm>

Undergraduate Program Director: Thomas Edwards,

E-mail: tedwards@mail.ucf.edu

Admission Requirements Limited Access

- Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program
- Separate application to the limited access program must be made directly to the program on or before March 1 of the year admission is sought
- UCF application must be submitted by the program deadline of March 1. Acceptance to UCF is necessary before acceptance to the program can occur
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- Criminal history information (background check) must be submit-

UCF Degree Programs

ted on or before April 1st of the year admission is sought. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).

- A personal interview is also required.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program. All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0). Applicants are considered for admission based on ranking by overall GPA.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF Residency Requirement for Radiography: 33 hours

1. UCF General Education Program (36+2 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Select MAC 1105*	
Select CGS 1060C	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
Select BSC 2010C*	
Select PHY 2053C*	

2. Common Program Prerequisites (12 hrs)

CGS 1060C	Introduction to Computer Science	GEP
PCB 3703C*	Human Physiology	4 hrs
PHY 2053C*	College Physics I	GEP
PHY 2054C	College Physics II	4 hrs
ZOO 3733C*	Human Anatomy	4 hrs
MAC 1105*	College Algebra	GEP

*See Transfer Notes

3. Core Requirements (77 hrs)

Junior Level		
RTE 3000	Introduction to Radiologic Sciences	3 hrs
RTE 3111C	Introduction to Patient Care	2 hrs
RTE 3503C	Radiographic Procedures I	3 hrs
RTE 3116	Advanced Patient Care	3 hrs
RTE 3418C	Principles of Radiographic Exposure I	3 hrs
RTE 3930	ST: Clinical Education I	2 hrs
RTE 3513C	Radiographic Procedures II	3 hrs
RTE 3457C	Principles of Radiographic Exposure II	3 hrs
RTE 3614	Physics of Image Production	2 hrs
RTE 3308	Medical Physics	3 hrs
STA 2023	Statistical Methods I	3 hrs
HSC 4550	Pathophysiologic Mechanisms	3 hrs
RTE 3930	ST: Clinical Education II	4 hrs

Senior Level

RTE 4563	Special Radiographic Procedures	2 hrs
RTE 4782	Pathophysiology	2 hrs
RTE 4932	ST: Clinical Education III	5 hrs
RTE 4573	Advanced Imaging Modalities	3 hrs
RTE 4574	Computed Tomography Protocols or	1 hr
RTE 4579	Mag Resonance Imaging Protocols	1 hr
RTE 4932	ST: Clinical Education IV	6 hrs
RTE 4385	Radiobiology	1 hr
RTE 4932	ST: Clinical Education V - A	2 hrs
RTE 4932	ST: Clinical Education V - B	4 hrs
RTE 4473	Quality Improvement	3 hrs
RTE 4762	Anatomy for the Medical Imager	3 hrs
RTE 4206	Leadership in Radiologic Sciences	3 hrs
RTE 4932	ST: Advanced Clinical Practicum	4 hrs

5. Program Exit Requirements (126 hrs)

A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continu-

ation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the Radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (126 hrs)

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration

Related Minors: Health Services Administration

Transfer Notes:

Prerequisite Requirements

The prerequisite requirements for the following courses are listed below:

PHY 2053C: PR: MAC 1105 and MAC 1114 or equivalent or C.I.

PCB 3703C: PR: BSC 2010C, CHM 1032 or CHM 2045C.

ZOO 3733C: PR: BSC 2010C or equivalent.

Credit by Examination

Credit by Exam for clinical education courses will be awarded to ARRT certified Radiographers who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated by registration in multiple disciplines, registration in an advanced level of certification or completion of the Advanced Clinical Practicum course. Students who successfully complete the requirements for credit by exam will be awarded a grade of "S" for the clinical education courses required in their program of study.

Credit by exam for didactic courses will be awarded according to the process described in the UCF catalog.

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Community College Equivalents:

Human Anatomy and Physiology I and II (BSC X085C and BSC X086C or BSC 2093C and BSC 2094C)	8
College Algebra (MAC 1105) or (MAC 1102)	3
College Physics I (PHY 2053C)	4
College Physics II (PHY 2054C)	4
Introduction to Computer Science (CGS 1060C) or CGS X530, CGSX570, CIS X400, CIS X000, CGS X000, CGS X061, CGS X361 (no longer offered), CGS X100	3

Tentative Course Schedule for Entering Freshmen

RADIOLOGIC SCIENCES

Freshman Year*

Fall	13 hrs	Spring	16 hrs
ENC 1101	3	ENC 1102	3
CGS 1060C	3	BSC 2010C	4
MAC 1105	3	MAC 1114	3
CHM 1032	4	ECO 2013 or POS 2041 or ECO 2023	3
		MUL 2010 or THE 2000 or REL 2300 or PHI 2010 or ARH 2050 or FIL 2400	3

Sophomore Year

Fall	14 hrs	Spring	14 hrs
PHY 2053C	4	PCB 3703C	4
ZOO 3733C	4	SPC 1600	3
EUH 2000 or HUM 2210 or AMH 2010	3	PHY 2054C	4
PSY 2012 or SYG 2000 or	3	EU2001 or	3
		HUM 2230 or AMH 2020	

ANT 2000			
Junior Year			
Fall	15 hrs	Spring	16 hrs
RTE 3000	3	RTE 3457C	3
RTE 3111C	2	RTE 3930	4
RTE 3418C	3	RTE 3513C	3
RTE 3503C	3	HSC 4550	3
RTE 3614	2	RTE 3116	3
RTE 3930	2		
Summer	13 hrs		
STA 2023	3		
RTE 4932	5		
RTE 3308	3		
RTE 4563	2		
Senior Year			
Fall	14 hrs	Spring	14/12 hrs
RTE 4385	1	RTE 4932	4**
RTE 4762	3	or RTE 4932**	2
RTE 4932	6	and RTE 4932**	4**
RTE 4573	3	RTE 4782	2
RTE 4574 or RTE 4579	1	RTE 4473	3
		RTE 4206	3
Summer	4/6 hrs		
RTE 4932	4**		
or			
RTE 4932	2		
and RTE 4932	4**		

**Completed during the Spring or Summer semester/term.

RADIOLOGIC SCIENCES (B.S.)

AS to BS TRACK

Note: For detailed information about this program, see description in the Articulated AS to BS Program section.

REAL ESTATE (B.S.B.A.)

**College of Business Administration
BA2 101, 407-823-2184**

<http://www.bus.ucf.edu/Realestate>

Admissions Requirements

- Completion of the UCF General Education Program or an AA degree from a Florida public community college
- See Common Program Prerequisites

Degree Requirements

- 1. UCF General Education Program (36 hrs)**
 - A. Communications Foundations 9 hrs
Required: SPC 1600 Fund of Oral Communication
 - B. Cultural and Historical Foundations 9 hrs
 - C. Mathematical Foundations
Select MAC 1105 College Algebra 3 hrs
Select CGS 2100C Computer Fund. For Business 3 hrs
 - D. Social Foundations
Select ECO 2013 or ECO 2023 3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
 - E. Science Foundations 6 hrs

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a "C" (2.0) or better.			
ACG 2021	Principles of Financial Accounting	3 hrs	
ACG 2071	Principles of Managerial Accounting	3 hrs	
ECO 2013	Principles of Macroeconomics	3 hrs	
ECO 2023	Principles of Microeconomics	3 hrs	
*ECO 3401	Quantitative Business Tools I	3 hrs	
CGS 2100C	Computer Fundamentals for Business	3 hrs	

*At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)

First or subsequent semester in the College of Business Administration:			
GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs	
GEB 3356	Introduction to International Business	4 hrs	
BUL 3130	Legal & Ethical Environments of Business	4 hrs	
ECO 3411	Quantitative Business Tools II	4 hrs	
FIN 3403	Business Finance	4 hrs	
MAN 3025	Management of Organizations	4 hrs	

ISM 3011	Essentials of Management Information Systems	4 hrs
MAR 3023	Marketing	
Last Semester:		
MAN 4720	Strategic Management	4 hrs

4. Special College and/or Department Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in real estate must apply for admission to the major.
- Final exams will be given during exam week.
- Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- A maximum of 6 hours of required or elective coursework can count toward another major or minor degree program.
- Students majoring in real estate must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major.
- Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses (9 hrs)

FIN 2104	Personal Finance and Investments	3 hrs
REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs

6. Restricted Electives (15 hrs)

Select five of the following:

REE 3614	Environmental Issues for Real Estate	3 hrs
REE 4103	Real Estate Appraisal and Valuation	3 hrs
REE 4204	Residential Real Estate Finance	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs
REE 4732	Real Estate Development	3 hrs
REE 4203	Commercial Real Estate Finance	3 hrs
MAR 3391	Professional Selling	3 hrs
REE 4941	Internship	3 hrs
REE 4903H**	Honors Directed Readings in Real Estate	3 hrs
REE 4970H**	Honors Thesis in Real Estate	3 hrs

**Must be accepted into the UCF Honors in the Major Program. See <http://www.honors.ucf.edu/> for details.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives*** (variable)

Total Semester Hours Required 120 hrs

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative

UCF Degree Programs

Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C"(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both

FOUR YEAR PLAN OF STUDY - REAL ESTATE

Freshman

1st Term	15 hrs	2nd Term	15 hrs
ENC 1101	3	ENC 1102	3
Cult-Hist I	3	Cult-Hist II	3
SPC 1600	3	Art/Music/Lit	3
MAC 1105	3	CGS 2100C	3
Elective***	3	Elective***	3

Must complete nine hours in a summer semester

Sophomore

1st Term	15 hrs	2nd Term	15 hrs
ECO 2013	3	ECO 2023	3
ACG 2021	3	ACG 2071	3
Science	3	Science	3
Psy/Soc/Ant	3	FIN 2104	3
Elective***	3	ECO 3401	3

Junior

1st Term	14 hrs	2nd Term	15 hrs
GEB 3031	4	GEB 3356	4
REE 3043	3	MAR 3023	4
REE 3433	3	ECO 3411	4
FIN 3403	4	REE Elective	3

Senior

1st Term	15 hrs	2nd Term	16 hrs
MAN 3025	4	MAN 4720	4
ISM 3011	4	REE Elective	3
BUL 3130	4	REE Elective	3
REE Elective	3	REE Elective	3
		Elective***	3

***General electives as required to reach 120 semester hours.

RELIGIOUS STUDIES (B.A.)

College of Arts and Humanities

Philosophy Department, CNH 411

<http://www.cas.ucf.edu/philosophy/>

E-mail: religion@mail.ucf.edu

Contact: Claudia Schippert, 407-823-2273; Fax: 407-823-6658

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a "C" (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60

hours.

1. UCF General Education Program

(36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
 - Select HUM 2210 Humanistic Tradition I 3 hrs
 - Select HUM 2230 Humanistic Tradition II 3 hrs
 - Select REL 2300 World Religions 3 hrs
- C. Mathematical Foundations 6 hrs
 - Prefer MGF 1106 Finite Mathematics (May substitute a higher level math)
 - Prefer STA 1060C Statistics Using Excel
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites

none

3. Core requirements

(24 hrs)

a. Core

- HUM 2210 Humanistic Traditions I
- HUM 2230 Humanistic Traditions II
- REL 2300 World Religions
- REL 4910 Senior Research Seminar

b. Foundations in the Study of Religion and the Humanities

(9 hrs)

Select three courses, at least two must be from (1)

(1) Religion

- PHI 3700 Philosophy of Religion
- REL 4110 Religion and the Arts
- POT 4632 Religion and Politics
- SYO 4200 Sociology of Religion
- REL 3131 Religion in America
- ANT 3241 Magic, Ritual, and Belief

(2) Humanities and Classics

- HUM 3431 Ancient Humanities
- HUM 3435 Medieval Humanities
- HUM 3255 Modern Humanities
- HUM 3252 Contemporary Humanities
- CLA 3850 Classical Mythology
- CLA 3851 Comparative Mythology

c. Traditions: Religion in a Global World

(9 hrs)

Select three courses:

- HUM 3401 Asian Humanities
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 3552 Christian Thought
- HUM 3553 Moses, Jesus, and Mohammed
- JST 3401 The Jewish People I
- or
- JST 3402 The Jewish People II
- ANT 3245 Native American Religions
- REL 3340 Buddhist Thought

d. Applications: Topics and Issues in the Study of Religion

(6 hrs)

Select two courses:

- HUM 4554 Religious Quest and the Human Dilemma
- HUM 4303 The Spiritual Ideal
- PHI 3033 Philosophy, Religion, and the Environment
- REL 3115 Religion, Spirituality, and Popular Music
- REL 3111 Religion and Philosophy through Film
- REL 3432 Roots of Western Mysticism

4. Upper division Restricted Electives

(9 hrs)

Select three courses from the following list and/or the Core list above (if not being used to fulfill Core Requirements):

- HUM 3320 Contemporary Multicultural Studies
- HUM 4301 The Classical Ideal
- HUM 4330 Performance Theory
- PHI 4321 Philosophy of Embodiment: Mind/Body/Self
- PHI 3638 Ethical Issues in the 21st Century
- PHI 4341 Ways of Knowing
- PHI 4804 Critical Theory
- PHP 3786 Existentialism
- AML 3615 Harlem, Haiti, and Havana
- LIT 4374 Literature of the Bible
- LIT 3202 Death and Dying
- JST 3100 The Hebrew Creative Mind
- JST 3550 Introduction of Modernism into Judaism
- JST 3701 History of the Holocaust
- JST 3751 Literature of the Holocaust
- JST 3810 The Jewish National Movement and Roots of Zionism
- ASH 3222 Islam and its Empires
- ASH 3223 The Modern Middle East

Note: Relevant new or special topics courses in philosophy, humanities, or other relevant areas may be substituted for some required courses with prior approval by department advisor.

5. Honors in the Major

Students considering graduate school in Religious Studies are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hrs)

Same requirements as for regular majors

Honors Thesis (6 hrs)

REL 4903H	Honors Directed Readings	3 hrs
REL 4970H	Honors Thesis	3 hrs

Additional Requirements

- Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both REL 4903H and REL 4970H
- Maintain a UCF GPA of at least 3.2 and a Religious Studies GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

6. Departmental Exit Requirements (3 hrs)

- **Either** REL 4970H: Honors Thesis (3 hrs) or REL 4910 Senior Research Seminar (3 hrs).
- Earn a "C" (2.0) or better in each required course
- Computer Competency met by REL 4970H, REL 4910, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Philosophy, Humanities, Interdisciplinary Studies

Related Minors: Philosophy, Humanities, Judaic Studies, Religious Studies

Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring	
ENC 1101 Composition I	ENC 1102 Composition II	3
HUM 2210 Hum Tradition I	HUM 2230 Hum Tradition II	3
MGF 1106* req# 1C1-GEP	STA 1060C* req# 1C2-GEP	3
REL 2300 World Religions	REL 3131* req# 3b-Foundn	3
SPN 1120* req# Lang/Elect	SPN 1121* req# Lang/Elect	4

Sophomore Year

Fall	Spring	
ANT 2511* req# 1E2-GEP	POS 2041* req# 1D1-GEP	3
COM 1000* req# 1A3-GEP	PSC 1121* req# 1E1-GEP	3

PSY 2012* req# 1D2-GEP	3	HUM 3417* req# 3c-Tradtns	3
HUM 3252* req# 4-ResElect	3	REL 4110* req# 3b-Foundn	3
JST 3401* req# 3c-Tradtns	3	Elective* Check restrictions	3

Junior Year

Fall	Spring	
PHI 3700* req# 3b-Foundn	REL 3111* req# 4 ResElect	3
REL 3115* req# 3d-Appl	REL 3432* req# 3d-Appl	3
PHI 4341 req# 4 ResElect	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3

Senior Year

Fall	Spring	
REL 4910 Seminar	REL 3340* req# 4 3c-Tradtns	3
Elective* Check restrictions	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3
Elective* Check restrictions	Elective* Check restrictions	3

RESTAURANT AND FOOD SERVICE MANAGEMENT (B.S.)

Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000

<http://www.hospitality.ucf.edu>

Dean: Abraham Pizam

Degree Requirements

1. UCF General Education Program (GEP) (36 hrs)

A. Communications Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 1105 College Algebra	3 hrs
Select CGS 2100C Computer Fundamentals for Business <i>or</i> STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	
Select ECO 2013 Macroeconomics	3 hrs
<i>or</i>	
Select ECO 2023 Microeconomics	
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites (3 hrs)

HFT 1000 Introduction to Hospitality Management	3 hrs
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3. Foundations

CGS 2100C Computer Fundamentals of Business	(GEP)
<i>or</i> STA 2023 Statistical Methods I	
ECO 2013 Macroeconomics	(GEP)
<i>or</i> ECO 2023 Microeconomics	
MAC 1105 College Algebra	(GEP)

4. Hospitality Management Core (28 hrs)

HFT 2403 Hospitality Financial Accounting	3 hrs
HFT 2500 Hospitality Marketing	3 hrs
HFT 2220 Hospitality Human Resources	3 hrs
HFT 3444 Hospitality Information Systems	3 hrs
HFT 3600 Legal Environment in Hospitality	3 hrs
HFT 3431 Hospitality Managerial Accounting	3 hrs
HFT 3540 Guest Services Management	3 hrs
HFT 4462 Hospitality Industry Finance	3 hrs
HFT 4286 Hospitality Communications	3 hrs
HFT 3933 Distinguished Lectures in Hospitality Mgmt	1 hr

5. Internship (3 hrs)

HFT 3940 Internship	1 hr
HFT 4941 Internship	1 hr
HFT 4944 Internship	1 hr

6. Restaurant Management Core (24 hrs)

FSS 2221C Quantity Food Preparation	3 hrs
HFT 3263 Restaurant Management	3 hrs
HFT 4268 Case Studies in Restaurant Management	3 hrs
FSS 3124 Supply and Procurement Management	3 hrs
HFT 4266 Restaurant Brand Management	3 hrs
HFT 4281 Restaurant Leadership Strategies and Tactics	3 hrs
HFT 4861C Beverage Management	3 hrs
HFT 4844 Sanitation in the Food Service Industry	3 hrs

7. Special College Requirements

- Final exams will be given during Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.

UCF Degree Programs

8. Restricted Electives (15 hrs)

Choose any 5 courses from the list below for a total of 15 credit hours

FSS 3232C	Intermediate Techniques of Food Production	3 hrs
FSS 4286C	Catering and Banquet Organization	3 hrs
HFT 3807	Multi-Unit Food Service Operations	3 hrs
HFT 4645	Restaurant Real Estate, Site Selection and Modeling	3 hrs
HFT 4425	Financial Analysis for Restaurant Managers	3 hrs
HFT 3574	Foodservice Marketing, Advertising, and Promotion Management	3 hrs
HFT 4269	Case Studies in Multi-Unit Restaurant Mgt	3 hrs
HFT 4343	Hospitality Facilities, Planning and Design	3 hrs
HFT 3654	Franchising in the Restaurant Industry	3 hrs
HFT 4281	Restaurant Leadership and Tactics	3 hrs
FSS 3008	Culture and Cuisine	3 hrs
HFT 3610	Law and Restaurant Management	3 hrs
HFT 3285	International Restaurant Corporation Management	3 hrs
HFT 4284	Training and Employee Performance in the Food Service Industry	3 hrs
HFT 3834	Topics in Restaurant & Foodservice Management	3 hrs
FSS 4135	Corporate Contract & Managed Services Orgs	3 hrs
HFT 4864	Anheuser-Busch Seminar in Quality Brewing and Fine Beer	3 hrs
HFT 4866C	Exploring Wines of the World	3 hrs
HFT 4453	Food, Beverage and Labor Cost Control	3 hrs
HFT 3868	History of Wine and Culture	3 hrs
HFT 4894	International Gastronomy	3 hrs
HUN 3013	Nutrition in the Food Service Industry	3 hrs
HFT 4865	Advanced Wine Mgmt	3 hrs

9. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 hours of upper division credit completed
- 30 semester hours of coursework completed in residency (last 30 hours) at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable).

11. Unrestricted Electives (3-11 hrs)

As necessary to result in 120 total credit hours.

Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF's Rosen College of Hospitality Management.
- Florida Public Community College students are encouraged to complete general education requirements, prior to transferring at UCF.
- A minimum of 30 semester hours must be completed at UCF within the Rosen College of Hospitality Management.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

Four Year Plan of Study for B.S. Restaurant and Food Service Management*

Plan your required nine summer credit hours into your course of study.

Freshman Year			
Fall			
ENC 1101 - Eng Comp I	3 Hrs	ENC 1102 - Eng Comp II	3 Hrs
Cult/Hist Found Sequence I	3 Hrs	SPC 1600 - Fund Oral Comm	3 Hrs
CGS 2100C or STA 2023	3 Hrs	Cult/Hist Found Sequence II	3 Hrs
HFT 1000 - Intro to Hosp Man	3 Hrs	MAC 1105 - College Algebra	3 Hrs
PSY 2012, SYG 2000, or ANT 2000	3 Hrs	FSS 2221C - Quant Food Prep	3 Hrs
Spring			
Sophomore Year			
Fall			
15 Hrs		15 Hrs	

Science Foundation I	3 Hrs	Science Foundation II	3 Hrs
ECO 2013 or ECO 2023	3 Hrs	Cult/Hist Foundation	3 Hrs
HFT 3263 - Restaurant Mgmt	3 Hrs	FSS 3124 - Sup & Prod Mgmt	3 Hrs
HFT 2403 - Hosp Fin Acct	3 Hrs	HFT 3444 - Hosp Info Systems	3 Hrs
HFT 2220 - Hosp Hum Res Mgmt	3 Hrs	HFT 2500 - Hosp Marketing	3 Hrs

Junior Year

Fall		Spring	
14 Hrs		16 Hrs	
HFT 3540 - Guest Svc Mgmt	3 Hrs	HFT 4268 - Case Studies in F.S.	3 Hrs
HFT 4266 - Rest Brand Mgmt	3 Hrs	HFT 4844 Sanitation in the FS Ind.	3 Hrs
HFT 3431 - Hospitality Mgr Acct	3 Hrs	HFT 4861C Beverage Mgmt	3 Hrs
HFT 4281 - Leader Strategies	3 Hrs	Rest & F.S. Elective	3 Hrs
HFT 3940 - Internship I	1 Hr	HFT 4941 - Internship II	1 Hr
HFT 3933 - Dist Lect in Hosp	1 Hr	HFT 3600 - Legal Environ in Hosp	3 Hrs

Senior Year

Fall		Spring	
15 Hrs		15 Hrs	
HFT 4286 Communications	3 Hrs	HFT 4462 Finance	3 Hrs
Rest & F.S. Elective	3 Hrs	Rest & F.S. Elective	3 Hrs
Rest & F.S. Elective	3 Hrs	HFT 4281 - Leader Strategies	3 Hrs
HFT 4944 - Internship III	1 Hr	Rest & F.S. Elective	3 Hrs
Unrestricted Electives	5 Hrs	Unrestrictive Elective	3 Hrs

SCIENCE EDUCATION – BIOLOGY (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Aldrin Sweeney, ED 123L, 407-823-2561, E-mail: asweeney@pegasus.cc.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program

(36+1 hrs)

A. Communication Foundation	(9 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation	(9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877	3 hrs
2. Prefer: PHI 2010 Introduction to Philosophy	3 hrs
3. Prefer: AMH 2020 U.S. History 1877-present	3 hrs
C. Mathematical Foundation	(6 hrs)
1. Prefer: MGF 1106 Finite Mathematics	3 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics	3 hrs
D. Social Foundation	(6 hrs)
1. Prefer: POS 2041 American National Government	3 hrs
2. Prefer: PSY 2012 General Psychology	3 hrs
E. Science Foundation	(6+1 hrs)
A grade of "C-" (1.75) is required.	
1. Select: PSC 1121 Physical Science	3 hrs
2. Select: BSC 2010C Biology I	4 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites

(9 hrs)

EDF 2005	Introduction to Education	3 hrs
EDG 2701	Teaching Diverse Populations	3 hrs
EME 2040	Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (12 hrs)

EDF 2130*	Child & Adolescent Development for Educators	3 hrs
BSC 2010C	Biology I w/Lab	GEP
BSC 2011C	Biology II	4 hrs
CHM 2045C	Chemistry Fundamentals I	4 hrs
PSC 1121	Physical Science	GEP
PSC 1121L	Physical Science Lab	1 hr

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)

EDF 4467	Learning Theory and Assessment	3 hrs
EDF 4603	Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs
EDG 4410	Teaching Strategies and Classroom Mgmt	3 hrs
EEX 4074	Teaching Exceptional Students in Sec Settings	3 hrs
RED 4043	Content Reading in Kindergarten thru Grade 12	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs

- Program Internship I Prerequisites: EDG 4410, TSL 4080 and at least 50% of all required biology courses must be completed prior to Internship I with a minimum grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

5. Internship I Block (7 hrs)

SCE 4360	Science Instructional Analysis	4 hrs
ESE 3940	Internship I	3 hrs

6. Specialization Requirements (25 hrs)

CHM 2205	Intro to Organic and Biochemistry	5 hrs
PCB 3063	Genetics	3 hrs
PCB 3063L	Genetics Lab	1 hr
PCB 3044	Ecology	3 hrs
PCB 3044L	Ecology Lab	1 hr
MCB 3020C	Microbiology	5 hrs
SCE 4XXX	Programs in Teaching Science	3 hrs
PCB 3703C	Human Physiology <i>or</i>	4 hrs
ZOO 3733C	Human Anatomy	

- At least 80% of all required biology courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing score on the Subject Area Examination (Biology 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

7. Internship II Block (12 hrs)

ESE 4943	Internship II	11 hrs
ESE 4942	Internship II Secondary Seminar	1 hr

- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

8. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

ted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four Year Sequence of Courses

Freshman Year				
Fall	(12 hrs)	Spring	(16 hrs)	
EDF 2005	Introduction to Education	3	EDG 2701 Teaching Diverse Pop	3
ENC 1101	English Composition I	3	ENC 1102 English Composition II	3
MGF 1106	Finite Mathematics	3	PHI 2010 Intro to Philosophy	3
PSY 2012	General Psychology	3	PSC 1121 Physical Science	3
			PSC 1121 L Physical Science Lab	1
			SPC 1600 Fund of Oral Comm	3
Summer (6 hrs)				
EME 2040	Technology for Educators	3		
POS 2041	American National Gov	3		

Sophomore Year				
Fall	(14 hrs)	Spring	(15 hrs)	
AMH 2010	U.S. History 1492-1877	3	AMH 2020 US History 1877-present	3
BSC 2010C	Biology I w/Lab	4	BSC 2011C Biology II	4
CHM 2045C	Chemistry Fundamentals I	4	CHM 2205 Intro Organic & Biochem	5
STA 2014C	Principles of Statistics <i>or</i>	3	EDF 2130 Child and Adol Dev Ed*	3
STA 1060C	Basic Stats using MS Excel			

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer (3 hrs)			
TSL 4080	Theory & Prac of Teach	3	
	ESOL Students in Schools		

Junior Year				
Fall	(14 hrs)	Spring	(12 hrs)	
EDF 4467	Learn Theory & Assmt	3	MCB 3020C Microbiology	5
EDG 4410	Teach Strat & Class Mgmt	3	PCB 3063 Genetics	3
PCB 3044	Ecology	3	PCB 3063L Genetics Lab	1
PCB 3044L	Ecology Lab	1	SCE 4XXX Prog in Teach Science	3
PCB 3703C	Human Physiology <i>or</i>	4		
ZOO 3733C	Human Anatomy			
Summer (3 hrs)				
RED 4043	Content Reading K-12	3		

Senior Year				
Fall	(13 hrs)	Spring	(12 hrs)	
EDF 4603	Anal & Appl of Eth, Legal, & Safe Issues in Sch	3	ESE 4943 Internship II	11
ESE 3940	Internship I	3	ESE 4942 Intern II Sec Seminar	1
SCE 4360	Science Instructional Analysis	4		
EEX 4074	Teaching Exceptional Students in Secondary Settings	3		

UCF Degree Programs

SCIENCE EDUCATION - CHEMISTRY (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Aldrin Sweeney, ED 123L, 407-823-2561,
E-mail: asweeney@pegasus.cc.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36+1 hrs)

- A. Communication Foundation (9 hrs)
1. ENC 1101 English Composition I 3 hrs
 2. ENC 1102 English Composition II 3 hrs
 3. Prefer: SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundation (9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
 2. Prefer: PHI 2010 Introduction to Philosophy 3 hrs
 3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs
- C. Mathematical Foundation (6 hrs)
1. Select: MAC 1114 College Trigonometry 3 hrs
 2. Prefer: STA 1060C Basic Statistics using MS Excel *or* STA 2014C Principles of Statistics 3 hrs
- D. Social Foundation (6 hrs)
1. Prefer: POS 2041 American National Government 3 hrs
 2. Prefer: PSY 2012 General Psychology 3 hrs
- E. Science Foundation (6+1 hrs)
- A grade of "C-" (1.75) is required.
1. Select: BSC 2010C Biology I 4 hrs
 2. Select: PSC 1121 Physical Science 3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

- | | | |
|----------|------------------------------|-------|
| EDF 2005 | Introduction to Education | 3 hrs |
| EDG 2701 | Teaching Diverse Populations | 3 hrs |
| EME 2040 | Technology for Educators | 3 hrs |

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (8 hrs)

- | | | |
|-----------|--|-------|
| EDF2130* | Child & Adolescent Development for Educators | 3 hrs |
| CHM 2045C | Chemistry Fundamentals I | 4 hrs |
| PSC 1121 | Physical Science | GEP |
| PSC 1121L | Physical Science Lab | 1 hr |
| BSC 2010C | Biology I | GEP |
| MAC 1114 | College Trigonometry | GEP |

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)

- | | | |
|----------|---|-------|
| EDF 4467 | Learning Theory and Assessment | 3 hrs |
| EDF 4603 | Analysis and Applications of Ethical, Legal, and Safety Issues in Schools | 3 hrs |
| EDG 4410 | Teaching Strategies and Classroom Mgmt | 3 hrs |
| EEX 4074 | Teaching Exceptional Students in Sec Settings | 3 hrs |
| RED 4043 | Content Reading in Kindergarten thru Grade 12 | 3 hrs |
| TSL 4080 | Theory and Practice of Teaching ESOL | 3 hrs |

Students in Schools

- Program Internship I Prerequisites: EDG 4410, TSL 4080 and at least 50% of all required biology courses must be completed prior to Internship I with a minimum grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

5. Internship I Block (7 hrs)

- | | | |
|----------|--------------------------------|-------|
| SCE 4360 | Science Instructional Analysis | 4 hrs |
| ESE 3940 | Internship I | 3 hrs |

6. Specialization Requirements (29 hrs)

- | | | |
|-----------|---------------------------------|-------|
| CHM 2046 | Chemistry Fundamentals II | 3 hrs |
| CHM 2046L | Chemistry Fundamentals Lab | 1 hr |
| PHY 2053C | College Physics II | 4 hrs |
| CHM 3120 | Analytical Chemistry | 3 hrs |
| CHM 3120L | Analytical Chemistry Lab | 1 hr |
| CHM 2210 | Organic Chemistry I | 3 hrs |
| CHM 2211 | Organic Chemistry II | 3 hrs |
| CHM 2211L | Organic Laboratory Techniques I | 2 hrs |
| CHS 3501 | Intro to Forensic Science | 3 hrs |
| BCH 4053 | Biochemistry I | 3 hrs |
| SCE 4XXX | Programs in Teaching Science | 3 hrs |

- At least 80% of all required chemistry courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing score on the Subject Area Examination (Chemistry 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

7. Internship II Block (12 hrs)

- | | | |
|----------|---------------------------------|--------|
| ESE 4943 | Internship II | 11 hrs |
| ESE 4942 | Internship II Secondary Seminar | 1 hr |

- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

8. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA

- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 120 hrs
Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four Year Sequence of Courses

Freshman Year		Spring (12 hrs)	
Fall (13 hrs)		Spring	
EDF 2005 Introduction to Education	3	EDG 2701 Teaching Diverse Pop	3
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
PSC 1121 Physical Science	3	MAC 1114 College Trigonometry	3
PSC 1121L Physical Science Lab	1	PHI 2010 Intro to Philosophy	3
PSY 2012 General Psychology	3		
Summer (6 hrs)			
EME 2040 Technology for Educators	3		
POS 2041 American National Gov	3		

Sophomore Year		Spring (13 hrs)	
Fall (14 hrs)		Spring	
AMH 2010 U.S. History 1492-1877	3	AMH 2020 US History 1877-present	3
BSC 2010C Biology I w/Lab	4	CHM 2046 Chemistry Fund II	3
CHM 2045C Chemistry Fundamentals I	4	CHM 2046L Chemistry Fund II Lab	1
SPC 1600 Fund of Oral Comm	3	EDF 2130 Child and Adol Dev Ed*	3
		STA 2014C Prin of Statistics <i>or</i>	3
		STA 1060C Basic Stats using MS Excel	

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer (4 hrs)	
PHY 2053C	4

Junior Year		Spring (14 hrs)	
Fall (16 hrs)		Spring	
EDF 4467 Learn Theory & Assmt	3	CHM 2211 Organic Chemistry II	3
EDG 4410 Teach Strat & Class Mgmt	3	CHM 2211L Org Lab Techniques I	2
EEX 4074 Teaching Exceptional Students in Secondary Settings	3	CHS 3501 Intro to Forensic Science	3
CHM 2210 Organic Chemistry I	3	RED 4043 Content Reading K-12	3
CHM 3120 Analytical Chemistry	3	SCE 4XXX Prog in Teachg Science	3
CHM 3120L Analytical Chemistry Lab	1		
Summer (3 hrs)			
TSL 4080 Theory & Prac of Teach ESOL	3		
Students in Schools			

Senior Year		Spring (12 hrs)	
Fall (13 hrs)		Spring	
BCH 4053 Biochemistry I	3	ESE 4943 Internship II	11
EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch	3	ESE 4942 Intern II Sec Seminar	1
ESE 3940 Internship I	3		
SCE 4360 Science Instructional Analysis	4		

SCIENCE EDUCATION - PHYSICS (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://www.education.ucf.edu/>

Program Coordinator: Dr. Aldrin Sweeney, ED 123L, 407-823-2561
E-mail: asweeney@pegasus.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C-" (1.75) or better
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes

- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36+1 hrs)

A. Communication Foundation	(9 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation	(9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877	3 hrs
2. Prefer: PHI 2010 Introduction to Philosophy	3 hrs
3. Prefer: AMH 2020 U.S. History 1877-present	3 hrs
C. Mathematical Foundation	(6+1 hrs)
1. Select: MAC 2311 Calculus with Analytic Geometry I	4 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel <i>or</i> STA 2014C Principles of Statistics	3 hrs
D. Social Foundation	(6 hrs)
1. Prefer: POS 2041 American National Government	3 hrs
2. Prefer: PSY 2012 General Psychology	3 hrs
E. Science Foundation	(6 hrs)
A grade of "C-" (1.75) is required.	
1. Select: PSC 1121 Physical Science	3 hrs
2. Prefer: ANT 2511 The Human Species <i>or</i> Species BSC 1005 Biological Principles	3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005 Introduction to Education	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs
EME 2040 Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Prerequisites (8 hrs)

EDF 2130* Child & Adolescent Development for Educators	3 hrs
PHY 2048 Physics for Engineers and Scientists I	3 hrs
PHY 2048L Physics Lab for Engineers and Scientist I	1 hr
PSC 1121 Physical Science	GEP
PSC 1121L Physical Science Lab	1 hr
MAC 2311 Calculus with Analytic Geometry I	GEP

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)

EDF 4467 Learning Theory and Assessment	3 hrs
EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs
EDG 4410 Teaching Strategies and Classroom Management	3 hrs
EEX 4074 Teaching Exceptional Students in Secondary Settings	3 hrs
RED 4043 Content Reading in Kindergarten through Grade 12	3 hrs
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools	3 hrs

- Program Internship I Prerequisites: EDG 4410, TSL 4080 and at least 50% of all required biology courses must be completed prior to Internship I with a minimum grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL

UCF Degree Programs

4080 Theory and Practice of Teaching ESOL Students in Schools.

5. Internship I Block	(7 hrs)
SCE 4360 Science Instructional Analysis	4 hrs
ESE 3940 Internship I	3 hrs

6. Specialization Requirements	(29 hrs)
CHM 2045C Chemistry Fundamentals I	4 hrs
CHM 2046 Chemistry Fundamentals II	3 hrs
CHM 2046L Chemistry Fundamentals II Lab	1 hr
MAC 2312 Calculus w/Analytic Geometry II	4 hrs
MAC 2313 Calculus w/Analytic Geometry III	4 hrs
PHY 2049 Physics for Engineers & Scientists II	3 hrs
PHY 2049L Physics Lab for Engineers & Scientists II	1 hr
PHY 3101 Physics for Engineers & Scientists III	3 hrs
SCE 4XXX Programs in Teaching Science	3 hrs
PHY 3752C Physics of Scientific Instruments <i>or</i>	3 hrs
PHY 3722C Physics Laboratory Electronics	

- At least 80% of all required chemistry courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing score on the Subject Area Examination (Physics 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinical-experiences.education.ucf.edu>.

7. Internship II Block	(12 hrs)
ESE 4943 Internship II	11 hrs
ESE 4942 Internship II Seminar Secondary	1 hr

- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

8. Foreign Language Requirements (0-8 hrs)
 State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four Year Sequence of Courses

Freshman Year			
Fall	(12 hrs)	Spring	(16 hrs)
EDF 2005 Introduction to Education	3	MAC 2311 Cal with Anal Geometry I	4
ENC 1101 English Composition I	3	EDG 2701 Teaching Diverse Pop	3
PSY 2012 General Psychology	3	SPC 1600 Fund of Oral Comm	3
STA 1060C Basic Stat using MS Excel <i>or</i>	3	ENC 1102 English Composition II	3
STA 2014C Principles of Statistics		PHI 2010 Intro to Philosophy	3
Summer	(6 hrs)		
EME 2040 Technology for Educators	3		

POS 2041 American National Gov 3

Sophomore Year

Fall	(14 hrs)	Spring	(14 hrs)
AMH 2010 U.S. History 1492-1877	3	AMH 2020 US History 1877-present	3
MAC 2312 Cal w/Analytic Geometry II	4	MAC 2313 Cal w/Analytic Geom III	4
PSC 1121 Physical Science	3	EDF 2130 Child and Adol Dev Ed*	3
PSC 1121 L Physical Science Lab	1	CHM 2045C Chemistry Fund I	4
Select one:			
ANT 2511 The Human Species <i>or</i>	3		
BSC 1005 Biological Principles			

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer	(4 hrs)
PHY 2048 Physics for Eng & Scientists I	3
PHY 2048L Physics Lab for Eng & Sci I	1

Junior Year

Fall	(13 hrs)	Spring	(13 hrs)
CHM 2046 Chemistry Fund II	3	EDF 4467 Learn Theory & Assmt	3
CHM 2046L Chemistry Fund II Lab	1	RED 4043 Content Reading K-12	3
EEX 4074 Teaching Exceptional Students in Secondary Settings	3	PHY 2049 Physics Eng & Scientist II	3
EDG 4410 Teach Strat & Class Mgmt	3	PHY 2049L Physics Lab Eng & Sci II	1
TSL 4080 Theory & Prac of Teach ESOL Students in Schools	3	SCE 4XXX Prog in Teachg Science	3

Summer	(3 hrs)
PHY 3101 Physics for Eng & Scientists III	3

Senior Year

Fall	(13 hrs)	Spring	(12 hrs)
EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch	3	ESE 4943 Internship II	11
ESE 3940 Internship I	3	ESE 4942 Intern II Sec Seminar	1
SCE 4360 Science Instructional Analysis	4		
PHY 3752C Physics of Sci Instruments <i>or</i>	3		
PHY 3722C Physics Lab Electronics			

SOCIAL SCIENCE EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209

<http://ss.education.ucf.edu/>

Program Coordinator: Dr. Scott Waring, ED 123H, 407-823-1766,

E-mail: swaring@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisites and Other Program Prerequisites courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- 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.

1. UCF General Education Program (36 hrs)

A. Communication Foundation (9 hrs)	
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation (9 hrs)	
1. Select: AMH 2010 U.S. History 1492-1877	3 hrs
2. Prefer: PHI 2010 Introduction to Philosophy	3 hrs
3. Select: AMH 2020 U.S. History 1877-present	3 hrs

C. Mathematical Foundation	(6 hrs)
1. Prefer: MGF 1106 Finite Mathematics	3 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel <i>or</i> STA 2014C Principles of Statistics	3 hrs
D. Social Foundation	(6 hrs)
1. Select: POS 2041 American National Government	3 hrs
2. Select: PSY 2012 General Psychology	3 hrs
E. Science Foundation	(6 hrs)
1. Prefer: PSC 1121 Physical Science	3 hrs
2. Prefer: ANT 2511 The Human Species <i>or</i> BSC 1005 Biological Principles	3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites	(9 hrs)
EDF 2005 Introduction to Education	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs
EME 2040 Technology for Educators	3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements	(9 hrs)
EDF 2130* Child & Adolescent Development for Educators	3 hrs
SYG 2000 General Sociology	3 hrs
ECO 2013 Macroeconomics	3 hrs

Note: Student should consult advisor regarding course options.

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements	(18 hrs)
EDG 4410 Teaching Strategies and Classroom Mgmt	3 hrs
EDF 4467 Learning Theory and Assessment	3 hrs
EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools	3 hrs
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools	3 hrs
EEX 4074 Teaching Exceptional Students in Secondary Settings	3 hrs
RED 4043 Content Reading Kindergarten thru Grade 12	3 hrs

- Prior to Internship I, the student must have completed EDG 4410 Teaching Strategies and Classroom Management and at least 50% of all required social science courses indicated above with a letter grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at <http://www.clinicalexperiences.education.ucf.edu>.

5. Internship I Block	(6 hrs)
SSE 4361 Social Science Instructional Analysis	3 hrs
ESE 3940 Internship I	3 hrs

6. Specialization Requirements	(30 hrs)
SSE 4XXX Programs in Teaching Social Science	3 hrs
GEO 3471 World Political Geography	3 hrs
Upper Division Non Western History Elective: (LAH, AFH, <i>or</i> ASH prefix courses 3/4XXX)	3 hrs
Upper Division Political Science Electives (POS, INR, <i>or</i> CPO 3/4XXX)	3 hrs
Upper Division American History Electives (AMH 3/4XXX)	3 hrs
Field of Concentration Upper Division Electives (AFH, AMH, ASH, CPO, INR, LAH, <i>or</i> POS 3/4XXX)	6 hrs

ECO 2023 Microeconomics	3 hrs
EUH 2000 Western Civilization I	3 hrs
EUH 2001 Western Civilization II	3 hrs
AMH 2010 U.S. History 1492 – Present	GEP
AMH 2020 U.S. History 1877 – Present	GEP
POS 2041 American National Government	GEP
PSY 2012 General Psychology	GEP

7. Internship II Block	(12 hrs)
ESE 4943 Internship II	11 hrs
SSE 4941 Internship II Secondary Seminar	1 hr

- At least 80% of all required social science courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.
- Passing score on the Subject Area Examination (Social Science 6-12) portion of the Florida Teacher Certification Examination is strongly recommended prior to entry into Internship II.
- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the preprofessional level in accordance with State Board of Education Rule 6A-5.066.

8. Foreign Language Requirements	(0-8 hrs)
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State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Sequence of Program Courses:

Freshman Year			
Fall	(12 hrs)	Spring	(12 hrs)
EDF 2005 Introduction to Education	3	EDG 2701 Teaching Diverse Pop	3
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
MGF 1106 Finite Mathematics	3	POS 2041 American National Gov	3
PSY 2012 General Psychology	3	Select one:	
		ANT 2511 The Human Species <i>or</i>	3
		BSC 1005 Biological Principles	
Summer (6 hrs)			
EME 2040 Technology for Educators	3		
SPC 1600 Fund of Oral Comm	3		
Sophomore Year			
Fall	(15 hrs)	Spring	(12 hrs)
AMH 2010 U.S. History 1492-1877	3	AMH 2020 US History 1877-present	3
ECO 2013 Macroeconomics	3	ECO 2023 Microeconomics	3
PSC 1121 Physical Science	3	EDF 2130 Child and Adol Dev Ed*	3
SYG 2000 General Sociology	3	PHI 2010 Intro to Philosophy	3
STA 1060C Basic Stat using MS Excel <i>or</i>	3		

UCF Degree Programs

STA 2014C Principles of Statistics

***Transfer Notes:** Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer	(9 hrs)		
EUH 2000 Western Civilization I	3		
TSL 4080 Theory & Prac of Teach ESOL Students in Schools	3		
Political Science Elective (CPO, INR, POS 3/4XXX)	3		
Junior Year			
Fall	(15 hrs)	Spring	(12 hrs)
EDF 4467 Learn Theory & Assmt	3	SSE 4361 Soc Science Instr Analy	3
EDG 4410 Teach Strat & Class Mgmt	3	ESE 3940 Internship I	3
SSE 4XXX Prog Teachg Social Science	3	GEO 3471 World Political Geog	3
EUH 2001 Western Civilization II	3	RED 4043 Content Read K-12	3
Upper Div Non Western History Elective (AFH, ASH, LAH 3/4XXX)	3		

Summer	(3 hrs)
Field of Concent. Upper Level Elective (AFH, AMH, ASH, CPO, INR, LAH OR POS 3/4XXX)	3

Senior Year			
Fall	(12 hrs)	Spring	(12 hrs)
EDF 4603 Anal & Appl of Eth, Legal, & Safe Issues in Sch Seminar	3	ESE 4943 Internship II	11
		SSE 4941 Internship II Secondary	1
EEX 4074 Teaching Exceptional Students in Secondary Settings	3		
American History Elective (AMH 3/4XXX)	3		
Field of Concent. Upper Level Elective (AFH, AMH, ASH, CPO, INR, LAH OR POS 3/4XXX)	3		

SOCIAL SCIENCES (B.S.)

College of Sciences

Department of Sociology, PH 403, 407-823-2227

<http://www.cos.ucf.edu/sociology>

E-mail: sociology@ucf.edu

Contact: J. Corzine, 407-823-2227

The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships among those fields. Satisfactory completion of the program leads to the degree Bachelor of Science with a major in Social Sciences.

The program is administered through the Department of Sociology in the College of Sciences.

Admission Requirements **none**

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must declare a Social Sciences major prior to their senior year
- Students should consult with a Sociology advisor when entering the program
- Co-op and internship credit cannot be used in this major
- Independent study forms must be approved by the department prior to taking an independent study for use in the Restricted Elective areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each core requirement and restricted elective course
- Residency Requirement: Students must complete at least 30 hours of regularly scheduled 3000-4000 level courses that are used in the major at UCF
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program **(36 hrs)**

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
Prefer MAC 1105 College Algebra (or higher)
Select STA 1060C or STA 2014C or STA 2023 3 hrs
- D. Social Foundations 3 hrs
Select ECO 2013 or POS 2041, depending on concentration to be followed
- Select ANT 2000 or PSY 2012 or SYG 2000, depending on concentration to be followed 3 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites **(0 hrs)**
ECO 2013 or POS 2041 GEP
ANT 2000 or PSY 2012 or SYG 2000 GEP
*See Transfer Notes

3. Core requirements **(3 hrs)**
STA 1060C or STA 2014C or STA 2023 GEP
Select one course 3 hrs
POS 3703 Scope and Methods of Political Science
PSY 3213C Research Methods in Psychology
SYA 4300C Research Methods (Sociology)

4. Restricted Electives **(60 hrs)**
Select a minimum of 15 semester hours in each of four of the following six Social Science disciplines.
Select no more than two lower level Social Science courses (designated with an *asterisk) in any one area in the Restricted Elective section.

- A. Communication 3 hrs
COM 3311 Communication Research Methods 3 hrs
Select one course 3 hrs
RTV 3007 Dev & Str of Elect Media and New Tech
RTV 4403 Electronic Media, Tech, & Soc
JOU 3004 History of American Journalism
Select three more Communication courses 9 hrs
- B. Economics 3 hrs
*ECO 2013 Principles of Macroeconomics 3 hrs
*ECO 2023 Principles of Microeconomics 3 hrs
Select three more Economics courses 9 hrs
- C. Political Science 3 hrs
*POS 2041 American National Government 3 hrs
Select four more Political Science courses 12 hrs
- D. Psychology 3 hrs
*PSY 2012 General Psychology 3 hrs
PPE 3003 Personality Theory 3 hrs
Select three more Psychology courses 9 hrs
- E. Public Affairs 3 hrs
Select one course 3 hrs
CCJ 3024 Criminal Justice System
PLA 3013 Law and the Legal System
PAD 3003 Public Administration in Amer Soc
Additional 12 hours of Public Affairs courses 12 hrs
- F. Sociology/Anthropology 3 hrs
*SYG 2000 General Sociology 3 hrs
*ANT 2000 General Anthropology 3 hrs
Select three additional Sociology/Anthropology courses 9 hrs

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in each of four Social Science disciplines
- Computer Competency is met by the major
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements **(0-8 hrs)**
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives **(variable)**
Select primarily from upper level courses, with a Sociology advisor's approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed

- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **120 hrs**

Related Programs: Anthropology, Liberal Arts, Political Science, Public Administration, Psychology, Sociology

Related Minors: Anthropology, Communication, Economics, Political Science, Psychology, Public Administration, Sociology

Transfer Notes:

- Lower Division courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- Any two introductory Social Sciences courses could meet CPP requirements. However, the indicated courses are prerequisites for subsequent courses and must be taken.

SOCIAL WORK (B.S.W.)

College of Health and Public Affairs

HPA1 204, 407-823-2114

<http://www.cohpa.ucf.edu/social/>

E-mail: socialwk@mail.ucf.edu

Director: Dr. John Ronnau;

Undergraduate Program Coordinator: Robin Kohn

Admission Requirements **Limited Access**

Acceptance to the University does not necessarily constitute admission to the upper division social work program. Separate application to the *limited access program* must be made to the School of Social Work. Students are admitted to the undergraduate program only in the Summer or Fall terms. To be considered for admission to the program, students must have:

- Admission to the University
- A 2.5 overall GPA
- An AA (from a Florida State Community College) or UCF General Education Program, Gordon Rule, and CLAST
- 15 semester hours common program prerequisites (see Section 2 below for list of courses)
- This limited access program is work-intensive. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

Personal qualifications considered for acceptance include intelligence, initiative, social concern, appreciation for human diversity, dependability, humanitarian interests in helping people and in improving human services and college-level reading and writing skills.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Social Work
- Students should complete the General Education Program, the CLAST and the Common Program Prerequisite Requirements before beginning the Social Work Program
- Students should consult with a school advisor
- The courses designated in sections 1 (general education) and 2 (common program prerequisites) below may be taken at a college or university other than UCF, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 is required in all Social Work courses with a minimum grade of "C" (2.0) in each course.
- Students must earn an overall GPA of 2.5 for entry into field education (SOW 4510) and to be eligible for graduation from the

Social Work Program

- Students must complete all the requirements listed in 1-11 below

1. UCF General Education Program **(36 hrs)**

- A. Communication Foundations 9 hrs
Prefer SPC 1600
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Math
Select STA 2014C-Principles of Statistics or
STA 2023 Statistical Methods I
- D. Social Foundations 6 hrs
1. Select POS 2041
2. Select PSY 2012
- E. Science Foundations 6 hrs
Select BSC 1005 or MCB 1310
Select a listed science course

2. Common Program Prerequisites* **(15 hrs)**

- | | | |
|-------------|--------------------------|-------|
| POS 2041 | American Government | GEP |
| BSC 1005 | Biology | GEP |
| ECO 2013 or | Macroeconomics <i>or</i> | 3 hrs |
| ECO 2023 | Microeconomics | |
| PSY 2012 | Psychology | GEP |
| SYG 2000 | Sociology | 3 hrs |

*See Transfer Notes

3. Core Requirements **(45 hrs)**

- | | | |
|----------|--|-------|
| SOW 3104 | Assessing I: Human Development | 3 hrs |
| SOW 3203 | Social Work and Community Resources | 3 hrs |
| SOW 3300 | Practice I: Generalist Practice in Social Work | 3 hrs |
| SOW 3111 | Assessing II: Human Systems | 3 hrs |
| SOW 3352 | Practice II: Interpersonal Skills in Social Work Practice | 3 hrs |
| SOW 3401 | Social Work Research | 3 hrs |
| SOW 3620 | Social Work with Diverse Populations | 3 hrs |
| SOW 4730 | Documentation in Social Work Practice and Service Programs | 3 hrs |
| SOW 4232 | Social Welfare Policies and Issues | 3 hrs |
| SOW 4341 | Micro-level Roles and Interventions in Social Work | 3 hrs |
| SOW 4343 | Macro-level Roles and Interventions in Social Work | 3 hrs |
| SOW 4510 | Field Education | 9 hrs |
| SOW 4522 | Field Education Seminar | 3 hrs |

4. Required Social Work Elective **3 hrs**

5. Required Principles of Statistics **3 hrs**

6. Electives **(variable)**

7. Foreign Language or Cultural Diversity Requirement

Choose two of the following suggested courses: ANT 4332, ANT 3363, ANT 2410, ANT 3640, ASH 4404, ASH 4442, CPO 4303, HUM 3401, HUM 3417, HUM 3419, JST 3401, JST 3402, JST 3820, LAH 3130, LAH 3200, LAH 3400, LAH 3470, AMH 3561, AMH 3571, AMH 3586, ANT 3302, ANT 3311, ANT 3313, SOP 3724, SOP 3742, SPA 3621, SYD 3700, EDG 2701, HSC 3593, or see advisor for more options.

8. Foreign Language Requirements **(0-8 hrs)**

Admissions: Two years of one foreign language in high school, or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

9. Departmental Exit Requirements **(120 hrs)**

A minimum overall GPA of 2.5 in all social work courses with a minimum grade of "C" (2.0) or higher in each social work course.

10. University Minimum Exit Requirements

- A UCF GPA of 2.0
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

UCF Degree Programs

- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Related Programs: Criminal Justice, Psychology, Public Administration, Sociology.

Aging Studies Certificate: In recognition of the special needs of the older adults in Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. Students may complete the Aging Studies certificate (with the exception of the internship requirement) as a fully web-based program.

The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education or art education. All students must contact the Coordinator for planning their internship.

Children's Services Certificate: This certificate is open only to students in the undergraduate social work program (BSW). The Children's Services Certificate is designed to help students learn about the various components of the child welfare system and how that system impacts children and families. Students are prepared to identify child welfare problems such as child abuse and neglect experienced by children and families and are taught basic skills in working with families and with the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Addictions Certificate: This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program and/or the addiction specific courses will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

Related Minors: Health Services Administration, Aging Studies, Psychology, Sociology

Honors in the Major Requirements

- Complete a three-credit directed reading course/or a three-credit COHPA1 interdisciplinary Honor course.
- Complete a three-credit thesis course.
- Earn a 3.5 GPA in your Social Work major.
- Earn a cumulative 3.2 GPA in your total UCF courses.
- Complete 60 hours of college credit, including 12 upper division hours at UCF.

Transfer Notes:

Community College Equivalent courses for prerequisites: any course in the following areas (3 hrs each)

American Government or American National Government
Biology (Human Biology or Anatomy and Physiology)
Economics (Microeconomics or Macroeconomics)
Introductory Psychology
Introductory Sociology
Principles of Statistics

Tentative Course Schedule for Entering Freshmen

Freshman Year*

Fall	14 hrs	Spring	15 hrs
ENC 1101	3	ENC 1102	3
BSC 1005 or MCB 1310	3	MGF 1106	3
SYG 2000 or PSY 2012	3	PSY 2012 or SYG 2000	3
STA2014C	3	MUL 2010 or THE 2000	3
PAF 2102	2	or REL 2300 or PHI 2010	3
		POS 2041	3

Sophomore Year

Fall	15/16 hrs	Spring	15/16 hrs
ECO 2013 or ECO 2023	3	Foreign Lang II or	3/4
EUH 2000 or WOH 2012 or	3	Cult Diversity	
HUM 2210 or AMH 2010		CHM 1020 or PSC 1121 or	3
		AST 2002	
SPC 1600	3	Elective	3
Elective	3	EUH 2001 or	3
Foreign Lang I or Cult Diversity	3/4	HUM 2230 or AMH 2020	
		Elective	3
Junior Year			
Fall	15 hrs	Spring	15 hrs
SOW 3104	3	SOW 3111	3
SOW 3203	3	SOW 3352	3
SOW 3300	3	SOW 3401	3
SOW Elective	3	SOW 3620	3
STA2014C or Elective	3	Elective	3
Senior Year			
Fall	15 hrs	Spring	16 hrs
SOW 4232	3	SOW 4510	9
SOW 4341	3	SOW 4522	3
SOW 4343	3	Elective	1
SOW 4431	3	Elective	3
Elective	3		
Elective	3		

SOCIOLOGY (B.A.)

College of Sciences

Department of Sociology, PH 403, 407-823-2227

<http://www.cos.ucf.edu/sociology>

E-mail: sociology@ucf.edu

Contact: J. Corzine, 407-823-2227

The Sociology curriculum emphasizes critical examination of various components of society. The curriculum increases students' social awareness and their ability to employ a sociological perspective to interpret social institutions and behavior.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology Department.
- Students must maintain a UCF GPA of at least 2.0 in all courses used for the major.
- Students must have a "C" (2.0) or higher in all core courses.
- Co-op credit cannot be used in this major.
- Students should consult annually with a departmental advisor
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
1. Prefer MAC 1105 (or higher)	3 hrs
2. Prefer STA 2014C	3 hrs
D. Social Foundations	
1. Select a listed course	3 hrs
2. Select SYG 2000	3 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites

(3 hrs)

SYG 2000*	General Sociology	GEP
Any SYA, SYD, SYG, SYO, or SYP course		3 hrs

*See Transfer Notes

3. Core requirements

(15 hrs)

SYG 2000	General Sociology (or SYG 2010)	GEP
SYA 3400	Research Methods and Statistics	4 hrs
SYA 4300C	Research Methods	4 hrs
SYA 4450	Data Analysis	4 hrs
SYA 3110	Development of Social Thought	3 hrs

4. Restricted Electives

(27 hrs)

Select from the following		
SYA 3120	Modern Sociological Thought	
SYA 4650C	Applied Sociology	
SYA 5625	Proseminar	

SYA 5652	Advanced Population
SYD 3410	Urban Sociology
SYD 3700	Race & Ethnic Minorities in the US
SYD 3800	Sex Roles in Modern Society
SYD 4020	Population
SYD 4510	Environmental Sociology
SYD 4810	Women in Contemporary Society
SYD 4813	Women and Social Policy
SYG 2010	Social Problems
SYO 3000	Modern Sociology
SYO 3360	Social Organization & Human Relations
SYO 3410	Sociology of Mental Illness
SYO 3530	Social Stratification
SYO 4100	Family Trends
SYO 4200	Sociology of Religion
SYO 4250	Sociology of Education
SYO 4300	Political Sociology
SYO 4400	Medical Sociology
SYP 3300	Collective Behavior
SYP 3400	Social Change
SYP 3510	Sociology of Deviant Behavior
SYP 3511	Sociology of Murder
SYP 3520	Criminology
SYP 3530	Juvenile Delinquency
SYP 3540	Sociology of Law
SYP 3551	Sociology of Alcoholism
SYP 3562	Socio Perspect on Domestic Violence
SYP 3602	Sociology of Popular Music
SYP 3630	Sociology of Popular Culture
SYP 3650	Sociology and Sport
SYP 4000	Sociological Social Psychology
SYP 4004	Constructing Social Issues
SYP 4514	Sociology of Violence
SYP 4521	Criminal Victimization in Society
SYP 4536	Gangs and Society
SYP 4550	Sociology of Drug Abuse
SYP 4730	Sociology of Aging
SYP 4732	Minority Aging
SYP 5525	Sociological Criminology

- Eligible students may enroll for three to 16 semester hours of Internship in SYA 3940, SYA 4941, or SYA 5944. Arrangements for internship are coordinated by the Department Undergraduate Coordinator and require prior approval.
- All special topics courses with the prefixes SYA, SYD, SYO, or SYP count toward the restricted electives requirement.

5. Departmental Exit Requirements

- A minimum GPA of 2.0 in all courses used for the major.
- A minimum grade of "C" (2.0) in all core courses.
- Computer Competency met by SYA 4450.
- Students will be required to take a standard exit exam.
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in either a foreign language or American Sign Language. Standardized examinations may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs

Related Programs: Anthropology, Criminal Justice
Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Canadian Studies, Judaic Studies, Latin American Studies, Russian Area Studies, Sociology, and Women's Studies

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- SYG 2000*; although the CPP accepts any lower division sociology course, SYG 2000 is a prerequisite for subsequent courses and must be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer		
Math test See catalog		0
Freshman Year		
Fall		
ENC 1101 Composition I		3
MAC 1105* req# 1C1-GEP		3
SYG 2000 General Sociology		3
SPN 1120* req# Lang/Elect		4
POS 2041* req# 1D1-GEP		3
Spring		
ENC 1102 Composition II		3
STA 2014C Prin of Statistics		3
SYG 2010 Social Problems		3
Elective* Check restrictions		3
SPN 1121* req# Lang/Elect		4
Sophomore Year		
Fall		
ANT 2511* req# 1E2-GEP		3
EUH 2001* req# 1B1-GEP		3
SYD 3700* req# 4-ResElect		3
Elective* Check restrictions		3
Elective* Check restrictions		3
Spring		
COM 1000* req# 1A3-GEP		3
REL 2300* req# 1B2-GEP		3
SYD 3410* req.#4 - Res elect		4
SYD 3800* req# 4-ResElect		3
Elective* Check restrictions		3
Junior Year		
Fall		
PSC 1121* req# 1E1-GEP		3
SYA 4300C Res Methods		4
SYD 3410* req# 4-ResElect		3
SYA 3400 Res Meth & Stat		4
Spring		
PHI 2010* req# 1B3-GEP		3
SYA 3110 The Dev of Soc Tht		3
SYA 4450 Data Analysis		4
SYO 4100* req# 4-ResElect		3
Elective* Check restrictions		3
Senior Year		
Fall		
SYA 3120* req# 4-ResElect		3
SYO 3530* req# 4-ResElect		3
Elective* Check restrictions		3
Elective* Check restrictions		3
Elective* Check restrictions		3
Spring		
SYP 3510* req# 4-ResElect		3
SYP 3520* req# 4-ResElect		3
SYP 4000* req# 4-ResElect		3
Elective* Check restrictions		3
Elective* Check restrictions		3

SPANISH (B.A.)

**College of Arts and Humanities
 Department of Modern Languages & Literatures,
 CNH 523**

**<http://www.cas.ucf.edu/forlang/>
 E-Mail: modernlanguage@ucf.edu
 Contact: P. Giordano, 407-823-2472**

Admission Requirements none

Placement in Language courses

- Placement in language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school Spanish place the student in the first semester of the third year.
- Native Spanish speakers, near-native Spanish speakers, or students who have received advanced education abroad must substitute select classes.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

- 36 credits in Spanish must be taken at the 3000 level or above
- At least 6 of the 36 Spanish credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in Spanish
- Students must earn at least a "C" (2.0) in each upper division Spanish course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and

UCF Degree Programs

Literatures

- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their departmental advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics (may substitute a higher level math)	3 hrs
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites (0-14 hrs)

SPN 1120*	Elem Spanish Lang & Civ I	4 hrs
SPN 1121*	Elem Spanish Lang & Civ II	4 hrs
SPN 2200*	Interm Spanish Lang & Civ I	3 hrs
SPN 3234	Advanced Directed Readings	3 hrs

*May be met by proficiency test or completion of SPN 3234

3. Core requirements (15 hrs)

SPN 3300*	Adv Spanish Gram and Comp	3 hrs
SPN 3420*	Spanish Composition	3 hrs
SPN 3760*	Adv Spanish Oral Comm	3 hrs
SPW 3100 & 3101	Survey of Spanish Literature	6 hrs
or	or	
SPW 3130 & 3131	Survey of Latin-American Literature	

*A native or near-native Spanish speaker must substitute an alternate upper division Spanish course in consultation with a departmental advisor.

4. Upper Division Restricted Electives (21 hrs)

a. Select one of the following		3 hrs
FOL 3730	Romance Philology	
SPN 4801	Spanish Morphosyntax	
SPN 4800	Spanish American Syntax	
SPN 4780	Spanish Phonetics	
SPN 3852	Bilinguismo	
b. Spanish literature beyond the survey level (taught in Spanish)		6 hrs
c. Culture and Civilization		3 hrs
SPN 4510	Spanish Civ & Culture or	
SPN 4520	Latin American Civ & Culture	
d. Spanish courses		9 hrs

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division Spanish courses
- Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)

Admission: Met by Graduation requirements.

Graduation: Met by Common Program Prerequisites.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required

120 hrs

Related Programs: French, Modern Language Combination

Related Minors: French, Italian, Judaic Studies, Latin American Studies, Spanish

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.
- Native speakers, or students who have received advanced education in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall	Spring	
ANT 2000* req# 1D2-GEP	ENC 1102 Composition II	3
ENC 1101 Composition I	STA 1060C* req# 1C2-GEP	3
MGF 1106* req# 1C1-GEP	SPN 1121* req# 2-CPP	4
SPN 1120* req# 2-CPP	4 Elective* Check restrictions	4
Elective* Check restrictions		3

Sophomore Year

Fall	Spring	
AMH 2010* req# 1B1-GEP	BSC 1005* req# 1E2-GEP	3
ARH 2050* req# 1B3-GEP	MUL 2010* req# 1B2-GEP	3
POS 2041* req# 1D1-GEP	COM 1000* req# 1A3-GEP	3
PSC 1121* req# 1E1-GEP	3 SPN3234 * req# 2-CPP	3
SPN 2200* req# 2-CPP	3 Elective* Check restrictions	3

Junior Year

Fall	Spring	
SPN 3300 Adv Spa Gram Comp	SPW 3101* req# 3-Core	3
SPN 3420 Spanish Comp	SPN 4780* req# 4a-ResElec	3
SPN 3760 Adv Spa Oral Com	SPN 3141* req# 4d-ResElec	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

Senior Year

Fall	Spring	
SPW 3100* req# 3-Core	SPW 3131* req# 4b-ResElec	3
SPN 4520* req# 4c-ResElec	SPW 4381* req# 4b-ResElec	3
SPN 5705* req# 4d-ResElec	SPN 4410* req# 4d-ResElec	3
Elective* Check restrictions	3 Elective* Check restrictions	3
Elective* Check restrictions	3 Elective* Check restrictions	3

SPORTS AND FITNESS (B.S.)

College of Education

Department of Child, Family and Community Sciences ED209

<http://pegasus.cc.ucf.edu/~sportfit/>

Program Coordinator: Dr. Michael Kehoe, UCF at South Lake, Bldg 2, Room 316, 352-536-2179, E-mail: mkehoe@mail.ucf.edu

Point of Contact for Orlando Campus: Dr. Debby Mitchell, ED 320-Q, 407-823-6598, E-Mail: Mitchell@mail.ucf.edu

Admission Requirements

- Complete the University General Education Requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university; or the AS degree from the affiliated program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST alternative criteria.
- Complete program prerequisite courses prior to admission to the major and upper level courses.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should consult with an advisor on a regular basis. The courses designated in 1. (General Education), 2. (Sports and

Fitness Lower Division), and 3. (Lower Division Electives) should be completed prior to admission to the major and upper division courses.

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should see an advisor prior to selecting this major, and at least every semester thereafter.
- Students must earn at least a "C-" (1.75) in each required course and maintain an overall GPA of at least a 2.0.
- Prior to participation in Sports and Fitness Practicum I and Practicum II listed below, students must have achieved admission into one of the areas of specialization listed and described below.
- Students must meet with their advisor prior to enrollment in Sports and Fitness Practicum I and Practicum II to complete departmental application and approval process of the organization with which they will be working.

1. UCF General Education Program (36+1 hrs)

- A. Communication Foundation (9 hrs)
1. ENC 1101 English Composition I 3 hrs
 2. ENC 1102 English Composition II 3 hrs
 3. Prefer: SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundation (9 hrs)
1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
 2. Elective from GEP section B.2 3 hrs
 3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs
- C. Mathematical Foundation (6 hrs)
1. Prefer: MGF 1106 Finite Mathematics 3 hrs
 2. Prefer: STA 1060C Basic Statistics using MS Excel *or* STA 2014C Principles of Statistics 3 hrs
- D. Social Foundation (6 hrs)
1. Prefer: POS 2041 American National Government 3 hrs
 2. Prefer: PSY 2012 General Psychology 3 hrs
- E. Science Foundation (7 hrs)
1. Prefer: PSC 1121 Physical Science 3 hrs
 2. Select: BSC 2010C Biology I 4 hrs

2. Sports and Fitness Co-requisite Courses (7 hrs)

- | | | |
|-----------|---|-------|
| PET 2622C | Human Injuries | 3 hrs |
| ZOO 3736C | Exercise Physiology Anatomy (PR: BSC 2010C) | 4 hrs |
| BSC 2010C | Biology 1 | GEP |

Note: BSC 2093C and PET 2622 may be taken at a community college to meet UCF Sports and Fitness co-requisite requirements. BSC 2093C may substitute for ZOO 3736C if taken at a community college.

3. Sports & Fitness Core (27 hrs)

- | | | |
|----------|--|-------|
| PET 3137 | Concepts and Practices in Sports and Fitness | 3 hrs |
| SPM 3415 | Public Relations in Sports and Fitness | 3 hrs |
| SPM 3504 | Fiscal and Facilities Issues in Sports and Fitness | 3 hrs |
| SPM 3204 | Sports and Ethics | 3 hrs |
| PET 4215 | Motivational Aspects of Athletic Performance | 3 hrs |
| PET 4312 | Biomechanics | 3 hrs |
| PET 4401 | Administration & Evaluation | 3 hrs |
| SPM 4723 | Legal Issues in Sports and Fitness | 3 hrs |
| PET 4550 | Fitness Assessment and Exercise | 3 hrs |

4. Specialization (15 hrs)

Select 5 courses – approved by advisor

- | | | |
|-----------|--|-------|
| DAE 3370 | Dance and Rhythmics | 3 hrs |
| PEO 3041 | Games Analysis | 3 hrs |
| PET 3361 | Nutrition for Sports and Fitness | 3 hrs |
| PET 3765 | Coaching Theory | 3 hrs |
| PET 3771 | Fitness and Conditioning Concepts | 3 hrs |
| PET 3820 | Teaching Sport Skills | 3 hrs |
| PET 3768 | Aquatic Management | 3 hrs |
| PET 3XXX | Group Exercise Instruction | 3 hrs |
| PET 4050C | Motor Development and Learning | 3 hrs |
| PET 4083C | Practical Fitness Training | 4 hrs |
| PET 4351 | Applied Exercise and Human Physiology | 3 hrs |
| PET 4625 | Human Injuries - Mechanisms and Prevention | 3 hrs |
| PET 4640 | Adapted Physical Education | 3 hrs |
| PET 4763 | Coaching Methods and Principles | 3 hrs |

Coaching Specific 3 hrs

Select one if working toward a coaching profession (as approved by advisor)

- | | |
|----------|---------------------|
| PEO 2624 | Coaching Basketball |
| PEO 3324 | Coaching Volleyball |
| PEO 3644 | Coaching Football |

Students must complete three certifications approved by advisor prior to graduation

(these certifications will be determined in PET 3137-Concepts and Practices in Sports and Fitness course).

5. Sports & Fitness Practica (18 hrs)

- | | | |
|----------|---------------------------------|--------|
| PET 4925 | Sports and Fitness Practicum I | 6 hrs |
| PET 4926 | Sports and Fitness Practicum II | 12 hrs |

6. Suggested Electives (16 hrs)

(to meet 120 hrs requirement in consultation with advisor)

Electives Prefixes:

PEL, PEM, PEO, PET, DEP, EDF, EDG, ACG, DAE, EEX, HFT, HLP, HSC, HUN

During the final year of the program, students will complete Practicum requirements with a Sports or Fitness organization. These experiences will provide the student with actual professional experiences and practical hands-on knowledge of the career in which they have chosen to work. The design of Practicum I will be that of an observational and analytical role. During Practicum II, the student will be given responsibilities and assignments through the organization in which they have been placed and will carry an active role in the operation of the organization.

In both Practicum I and Practicum II, the student will be working directly with a Placement Coordinator in the organization and their University Supervisor. The University Supervisor will maintain periodic contact with the Placement Coordinator to check performance status. The Sports and Fitness program has developed tremendous opportunities through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organizations. Students will have the option to arrange their own practicum experience if they so choose. In either case, before enrolling in either Practicum I or Practicum II, students must meet with their advisor to provide organization contact information and gain Practicum Placement Approval.

The students will be instructed that they will be representing not only themselves while on site during their Practicum experiences, but also the University of Central Florida and the Sports and Fitness Program. Professionalism in manner, dress and job performance will be expected at all times. Should there be any question of the performance of the students during their practicum experience, they will be required to meet with their University Supervisor and their Faculty Advisor for a performance evaluation before returning to the Practicum site. The performance concerns will be addressed and a plan of action will be developed. If the problems persist and the situation warrants, the students may be removed from their Practicum experience.

7. Foreign Language (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

8. Exit Requirements

- A minimum overall GPA of 2.5.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event.
- Successful completion of 18 hours of Practicum Experiences.

9. Total Program Semester Hours Required 120 hrs

10. Recommended Four-Year Sequence of Courses

Freshman Year			
Fall	(12 hrs)	Spring	(16 hrs)
PSY 2012 General Psychology	3	POS 2041 American National Gov	3
ENC 1101 English Composition I	3	BSC 2010C Biology I	4
PSC 1121 Physical Science	3	ENC 1102 English Composition II	3
Elective	3	MGF 1106 Finite Mathematics	3
		SPC 1600 Fund of Oral Comm	3

Sophomore Year			
Fall	(14 hrs)	Spring	(12 hrs)
GEP B.1	3	PET 2622C Human Injuries	3
STA 1060C Basic Stat using MS Excel <i>or</i>	3	GEP B.1	3

UCF Degree Programs

STA 2014C Principles of Statistics <i>or</i>	Elective	3
CGS 1060C Intro to Computer Sci	Elective	3
ZOO 3736C Human Anatomy with Lab	4	
Elective	4	

Summer	(6 hrs)
GEP B.2	3
Elective	3

Junior Year

Fall	(15 hrs)	Spring	(15 hrs)
PET 3137 Conc & Prac in Sports & Fit	3	SPM 3415 Pub Relat in Sports & Fit	3
SPM 3204 Sports and Ethics	3	PET 4550 Fitness Assess & Exer	3
SPM 3504 Fiscal & Facil Issues Sp & Fit	3	PET 4312 Biomechanics	3
PET 4401 Administration & Evaluation	3	SPM 4723 Legal Issues Sports & Fit	3
Specialization course	3	Specialization course	3

Summer	(3 hrs)
Specialization course	3

Senior Year

Fall	(15 hrs)	Spring	(12 hrs)
PET 4215 Motiv Aspects of Ath Perf	3	PET 4926 Sports & Fit Practicum II	12
PET 4925 Sports & Fit Practicum I	6		
Specialization course	3		
Specialization course	3		

STATISTICS (B.S.)

College of Sciences
Department of Statistics and Actuarial Science
CC II 212, 407-823-2289

<http://www.cos.ucf.edu/statistics>

E-mail: statistics@ucf.edu

Contact: Xiaogang Su, 407-823-2940

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a "C" (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 +3 hrs)

Note: Certain courses must be selected in the GEP for this major bringing the total hours to more than 36

A. Communication Foundations	9 hrs
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	7 hrs
Select MAC 2311	
Select STA 2023	
D. Social Foundations	6 hrs
E. Science Foundations	8 hrs
Select PHY 2053C <i>or</i> CHM 2045C*	
Select BSC 2010C	

*CHM 2040C plus CHM 2041C can substitute for CHM 2045C

2. Common Program Prerequisites (7 hrs)

COP 3502C*	Computer Science I	3 hrs
MAC 2311	Calculus with Analy Geo I	GEP
MAC 2312	Calculus with Analy Geo II	4 hrs
BSC 2010C*	Biology I	GEP

*See Transfer Notes for possible substitutes

3. Core requirements (51 hrs)

STA 2023	Statistical Methods I	GEP
STA 4102	Computer Process of Stat Data	3 hrs

STA 4163	Statistical Methods II	3 hrs
STA 4164	Statistical Methods III	3 hrs
STA 4321	Statistical Theory I	3 hrs
STA 4322	Statistical Theory II	3 hrs
COT 4500	Numerical Calculus	3 hrs
MAC 2313	Calculus with Analy Geo III	4 hrs
ENC 3241	Writing for the Tech Professional	3 hrs
CHM 2045C <i>or</i> PHY 2053C		GEP
COP 3223*	Intro to Programming in C*	3 hrs

*May substitute an approved programming language course

a. Select one course 4 hrs

MAS 3106	Linear Algebra
MAS 3105	Linear and Matrix Algebra

b. Select one course 3 hrs

COT 3100C	Introduction to Discrete Structure
MHF 3302	Logic and Proof in Mathematics

c. Select three from among the following: 9 hrs

STA 3096	Statistical Graphics
STA 4173	Biostatistical Methods
STA 4222	Sample Survey Methods
STA 4502	Nonparametric Stat Methods
STA 4504	Categorical Data Analysis
STA 4664	Statistical Quality Control
STA 4852	Applied Time Series

d. Select a third science course and associated lab 4 hrs

BSC 2011C	Biology II (PR: BSC 2010C)
CHM 2045C*	Chemistry Fundamentals I (if not taken in GEP)
CHM 2046 & 2046L	Chemistry Fundamentals II & Lab (PR: CHM 2045C)
PHY 2053C	College Physics I (if not taken in GEP)
PHY 2054C	College Physics II (PR: PHY 2053C)

*CHM 2040C plus CHM 2041C can substitute for CHM 2045C

e. Select one course 3 hrs

Select any science course from the College of Arts & Humanities or the College of Sciences or any 3000-4000 level science course from either the College of Health & Public Affairs or the Burnett College of Biomedical Sciences

4. Restricted Electives (6 hrs)

- Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses
- Selected courses in engineering or business may be used but must first be approved by the Statistics Department
- The following cannot be used: MAC 2233, MAC 2253, MAC 2254, all MAE courses, and MHF 4404

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each STA course
- Take SOA Exam P (Probability)
- Computer Competency met by STA 4102
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed (Note: Statistics majors may count MAC 2313 as upper division credit.)
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Mathematics, Mathematics Education, Actuarial Science Track

Related Minors: Statistics, Mathematics

Transfer Notes:

- Lower division courses taken at community colleges do not substitute for Upper Division courses

- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- COP 3502C: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Math test See catalog

Freshman Year

Fall	Spring		
BSC 2010C Biology I	4 ENC 1102 Composition II	3	
ENC 1101 Composition I	3 PHY 2053C College Physics I	4	
MAC 2311 Calc Anal Geo I	4 STA 2023 Stat Methods I	3	
MUL 2010* req# 1B2-GEP	3 MAC 2312 Calc Anal Geo II	4	

Sophomore Year

Fall	Spring		
AMH 2010* req# 1B1-GEP	3 COP 3223 Intro to Prog C	3	
ARH 2050* req# 1B3-GEP	3 STA 4164 Stat Methods III	3	
POS 2041* req# 1D1-GEP	3 MAS 3105* req# 3a-Core	4	
MAC 2313 Calc Anal Geo III	4 PHY 2054C College Physics II	4	
STA 4163 Stat Methods II	3		

Junior Year

Fall	Spring		
COP 3502C Computer Science I	3 ENC 3241 Wr the Tech Prof	3	
STA 4321 Stat Theory I	3 STA 4322 Stat Theory II	3	
COT 3100C* req# 3b-Core	3 STA 4222* req# 3c-Core	3	
STA 4664* req# 3c-Core	3 BSC 2011C* req# 3e-Core	4	
STA 4183* req# 4-ResEle	3 Elective* Check restrictions	4	

Senior Year

Fall	Spring		
COT 4500 Numerical Calculus	3 PSY 2012* req# 1D2-GEP	3	
STA 4102 Comp Oroc of Stat	3 SPC 1016* req# 1A3-GEP	3	
STA 4502* req# 3c-Core	3 Elective* Check restrictions	3	
STA 4130* req# 4-ResEle	3 Elective* Check restrictions	3	
Elective* Check restrictions	3 Elective* Check restrictions	3	
Take SOA EXAM			

TECHNICAL EDUCATION AND INDUSTRY TRAINING (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209
<http://reach.ucf.edu/~technical/>

Program Coordinator: Jo Ann M. Whiteman, ED 122-T,
 407-823-2848, E-mail: jwhiteman@mail.ucf.edu

This program is only available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see <http://distrib.ucf.edu/home>.

Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Meet the University CLAST or CLAST alternative criteria
- Complete prerequisite courses
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should consult with an Education advisor prior to registration.

This degree is for students in adult Technical Education and Industry Training. This degree does not lead to teacher certification at the state level.

1. UCF General Education Program*	(36 hrs)
A. Communication Foundation	(9 hrs)
1. ENC 1101 English Composition I	3 hrs
2. ENC 1102 English Composition II	3 hrs
3. Prefer SPC 1600 Fundamentals of Oral Communication	3 hrs
B. Cultural-Historical Foundation	9 hrs
C. Mathematical Foundation	6 hrs
D. Social Foundation	6 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites	(9 hrs)
EDF 2005 Introduction to Education	3 hrs
EDG 2701 Teaching Diverse Populations	3 hrs
EME 2040 Technology for Educators	3 hrs

3. Program Core Requirements	(27 hrs)
EVT 3365 Gen Method/Test Eval	3 hrs
EVT 3062 Professional Role Voc Ed Teacher	3 hrs
EVT 3502 Special Needs Voc Ed Students	3 hrs
EVT 4065 Princip/Prac Technical Ed	3 hrs
EVT 4368 Adv Teaching/Techniques in Voc Ed	3 hrs
EVT 3367 Eval Vocation Training	3 hrs
EVT 4169 Curr Dev of Ind Training	3 hrs
ADE 4382 Teaching Adult Learners	3 hrs
Select one:	
EVT 3312 Course Const Health Occ Ed <i>or</i>	3 hrs
EVT 3371 Course Const Industrial Ed	3 hrs

4. Occupational Specialization Requirements (30 hrs)

Students must complete an area of specialization through one of the following routes:

- Occupation-specific courses
- Recognized occupational license/registration/certification
- Occupational examination
- Sufficient documentation demonstrating comparable occupational expertise equivalent to 30 semester hours of credit. Appropriate documentation must be provided to advisor before this will be submitted for credit.

5. Upper Division Electives (6 hrs)
 (with advisor's approval)

6. Directed Field Experience (12 hrs)

- The Occupational Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience.

7. Foreign Language Requirements (0-8 hrs)
 State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

6. Departmental Exit Requirements*

- Achieve a minimum 2.5 GPA in all courses within the major.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Program Semester Hours Required: 120 hrs

9. Recommended Sequence of Program Courses:

Freshman Year			
Fall	(15 hrs)	Spring	(15 hrs)
ENC 1101 English Composition I	3	ENC 1102 English Composition II	3
MGF 1106 Finite Mathematics	3	Select one:	
SPC 1600 Fund of Oral Comm	3	STA 1060C Basic Stat MS Excel <i>or</i>	3
Cultural-Historical Foundations Course	3	STA 2014C Principles of Statistics	3
Social Foundations Course	3	Cultural-Historical Found Course	3
		Cultural-Historical Found Course	3
		Social Foundations Course	3

Sophomore Year

UCF Degree Programs

Fall	(12 or 16 hrs)	Spring	(12 or 16 hrs)
EDF 2005 Introduction to Education	3	EDG 2701 Teaching Diverse Pop	3
EME 2040 Technology for Educators	3	Science Foundations Course	3
Science Foundations Course	3	Technical Specialization Course	3
Technical Specialization Course	3	Technical Specialization Course	3
Foreign Lang Course (if needed)	4	Foreign Lang Course (if needed)	4

Summer	(6 hrs)
EVT 3502 Special Needs Voc Ed Student	3
Select one:	3
EVT 3312 Course Const Health Occ Ed	or
EVT 3371 Course Const Industrial Ed	

Junior Year

Fall	(15 hrs)	Spring	(15 hrs)
EVT 3365 Gen Method/Test Eval	3	EVT 3062 Prof Role Voc Ed Teacher	3
Technical Specialization Course	3	EVT 3367 Eval Vocation Training	3
Technical Specialization Course	3	Technical Specialization Course	3
Technical Specialization Course	3	Technical Specialization Course	3
Technical Specialization Course	3	Technical Specialization Course	3

Summer	(6 hrs)
EVT 4065 Princip/Prac Technical Ed	3
EVT 4169 Curr Dev of Ind Training	3

Senior Year

Fall	(12 hrs)	Spring	(12 hrs)
ADE 4382 Teaching Adult Learners	3	EVT 4941	3
EVT 4368 Adv Teach/Tech in Voc Ed	3		
Upper Division Elective	3		
Upper Division Elective	3		

It is highly recommended that students seeking State certification pass the GKT. See advisor for further details.

THEATRE (B.F.A.)

College of Arts and Humanities

Department of Theatre, UTC 180, 407-823-2862

<http://www.theatre.ucf.edu>

Acting: Be Boyd, 407-823-0872, E-mail: bbboyd@mail.ucf.edu

Design & Technology and Stage Management: Bert Scott, 407-823-3636, E-mail: hscott@mail.ucf.edu

The Bachelor of Fine Arts Degree is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre. It provides the student with a very structured and intensive career preparation in either Acting, Stage Management, or Design and Technology. This BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements

- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become BFA majors via an interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at <http://www.theatre.ucf.edu>.
- An Acting candidate must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes. See <http://www.theatre.ucf.edu> for details and to schedule an appointment.
- Design and Technology and Stage Management tracks require an interview and portfolio review. The portfolio should contain no more than fifteen examples of the student's best work representing a variety of mediums including theatre work, drawing, painting, or other related projects. Three-dimensional pieces should be submitted in photo format. Stage Management majors should prepare a prompt book for presentation at their interview. See <http://www.theatre.ucf.edu> for details and to schedule an appointment.
- All Acting students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous

college work at the time of audition.

- All Design and Technology and Stage Management students must submit a resume, black and white photo, three letters of recommendation, and transcripts of previous college work at the time of interview.
- All BFA students are accepted on a "Provisional" basis their first year. Faculty will evaluate their work and decide whether or not the student may continue the program at the end of the first year.
- Departmental scholarship applications are due by March 1. Students may request a scholarship application prior to their audition/interview by contacting the Area Coordinator, or they may complete the application at their audition/interview.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than "C" (2.0) will not be counted in the major.
- Continuation in the BFA program requires positive BFA reviews by the faculty.
- Co-op credit cannot be used in this major.
- Students must consult with a departmental advisor before registering each semester.
- Departmental Residency Requirement consists of 60 semester hours of courses taken from the UCF Theatre Department.
- Prior to graduation, all BFA acting majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, one must be a front of house assignment, and the final one can be chosen by the student.
- Prior to graduation, all BFA Design and Technology and Stage Management majors (including transfers) must participate in at least 5 productions in addition to their Stagecraft I and II Labs. At least two participation credits must be as a department head, stage manager, assistant stage manager, designer, or other high-level production role. The other three credits can be a combination of shop assignments, run crew, front of house, or department head. Stage Management majors can use performance assignments for participation assignments.
- All BFA acting majors are required to audition for all Fall and Spring productions and must accept the roles assigned.
- Due to the conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the BFA program is not designed for transfer students, transfer students may audition and be admitted, but they should consult with the Theatre Department's Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- Design and Technology Students are required to take ARH 2051 as part of their GEP and are strongly encouraged to take ARH 2050 as an elective as early in their academic career as possible. Transfer students who have not completed ARH 2051 must complete the course at UCF.
- Design and Technology Students are required to take at least two design or technical direction elective courses following the completion of Scenography.
- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course. Students need not take additional hours to satisfy practicum requirements. Once students have completed their production participation requirements, they may register for a "0" credit participation course to meet departmental registration requirements.
- The department will accept one credit of Theatre Participation coursework for students transferring into the program.
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

■ Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations
 - Select one course from 1.B.1 list 3 hrs
 - Select THE 2020 Survey of Theatre for Majors Design and Technology Students - Select ARH 2051 (History of Western Art II) 3 hrs
- C. Mathematical Foundations
 - Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
 - Select STA 1060C Statistics Using Excel 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (18 hrs)

- THE 2020* Survey of Theatre for majors GEP
- THE 2304 Script Analysis 3 hrs
- THE 2090L* Theatre Participation – Management I 1 hr
- TPA 2290L* Theatre Participation - Production I 1 hr
- TPP 2190L* Theatre Participation - Performance I 1 hr
- TPA 2210 Stagecraft I *or* 3 hrs
- TPA 2201 Technical Theatre Production *and* 2 hrs
- TPA 2201L Technical Theatre Production LAB 1 hr

*Plus an additional 9 hours of THE, TPA, or TPP courses.

*See Transfer Notes for possible substitutes.

3. Core Requirements (12 hrs)

- TPP 2110C Acting I - Introduction CPP
- THE 3311 Theatre History and Dramatic Literature I 3 hrs
- THE 3312 Theatre History and Dramatic Literature II 3 hrs
- THE 3313 Theatre History and Dramatic Literature III 3 hrs
- THE 2304 Script Analysis CPP
- THE 2090L Theatre Participation – Management I CPP
- TPA 2290L Theatre Participation - Production I CPP
- TPP 2190L Theatre Participation - Performance I CPP
- TPP 3310C Directing I 3 hrs

4A. Specialization: select one area (63 hrs)

- Acting Specialization**
- TPA 2201 Technical Theatre Production CPP
 - TPA 2201L Technical Theatre Production LAB CPP
 - TPP 2170C Acting II – The Actor Prepares CPP
 - DAA 2200C Ballet I 2 hrs
 - TPP 2710C Voice Production I CPP
 - TPP 3172C Acting III – Building the Character 3 hrs
 - TPP 3510C Movement for the Actor I 2 hrs
 - TPP 3513C Movement for the Actor II 2 hrs
 - TPP 3512C Stage Combat 2 hrs
 - TPP 3257C Music Theatre Voice I 2 hrs
 - TPP 3258C Musical Theatre Voice II 2 hrs
 - TPP 3711C Voice Production II 2 hrs
 - TPP 3712C Voice Production III 2 hrs
 - TPP 3730C Voice Production IV 2 hrs
 - TPP 4140C Acting IV – Creating the Role 3 hrs
 - TPP 4142C Acting V - Verse 3 hrs
 - TPP 4265C Acting VI for TV/Film 3 hrs
 - TPP 4268C Acting VII for TV/Film 3 hrs
 - TPP 4531C Period Movement 2 hrs
 - TPP 4940L Theatre Internship 6 hrs
 - TPA 2248C Makeup Techniques CPP
 - TPP 4223C Theatre Careers for Performance 3 hrs
 - DAA 2570C Jazz Dance I *or* 2 hrs
 - DAA 2100C Modern Dance I 2 hrs
 - TPA 4293L – *or* – THE 4093L – *or* – TPP 4193L 1 hr
 - Restricted electives (see list of courses) 13 hrs

- Stage Management Specialization**
- TPA 2210 Stagecraft I CPP
 - TPA 2210L Stagecraft I LAB 1 hr
 - TPA 2211 Stagecraft II CPP
 - TPA 2211L Stagecraft II LAB 1 hr
 - TPA 4293L Theatre Participation – Production II 1 hr
 - THE 4093L Theatre Participation – Management II 1 hr
 - TPA 4400 Theatre Management 3 hrs
 - TPP 2170C Acting II – The Actor Prepares 3 hrs
 - TPA 2000C Theatre Design Basics CPP
 - TPA 2010C Scenography 3 hrs
 - TPA 2220C Stage Electronics 3 hrs
 - TPA 2600 Stage Management Basics CPP
 - TPA 3601 Stage Management 3 hrs
 - TPA 4602 Advanced Stage Management 3 hrs
 - TPA 3221C Lighting Design for Theatre I *or* 3 hrs
 - TPA 3260C Sound Design for Theatre I 3 hrs

- TPA 3195L Summer Theatre Studio/Tech/Design I 3 hrs
- TPA 3197L Summer Theatre Studio/Tech/Design II 3 hrs
- TPA 4284 Costumes, Architecture and Decor History I 3 hrs
- TPA 4285 Costumes, Architecture and Decor History II 3 hrs
- TPA 4940 Theatre Internship 6 hrs
- TPA 4401 Theatre Careers for Tech/Management 3 hrs
- TPA 4250C CADD for Theatre 2 hrs
- Restricted electives (see list of courses) 12 hrs

Design and Technology Specialization

- ARH 2051 Art History II GEP
- TPA 2210 Stagecraft I CPP
- TPA 2210L Stagecraft I LAB 1 hr
- TPA 2211 Stagecraft II CPP
- TPA 2211L Stagecraft II LAB 1 hr
- TPA 2220C Stage Electronics CPP
- TPA 4293L Theatre Participation – Production II (1 credit course, must be taken twice) 2 hrs
- TPA 2000C Theatre Design Basics CPP
- TPA 2071C Theatre Rendering 3 hrs
- TPA 2010C Scenography 3 hrs
- TPA 4284 Costumes, Architecture and Decor History I 3 hrs
- TPA 4285 Costumes, Architecture and Decor History II 3 hrs
- TPA 3077C Scene Painting *or* 2 hrs
- TPA 3383C Topics in Technical Theatre
- TPA 3195L Summer Theatre Studio/Tech/Design I 3 hrs
- TPA 3197L Summer Theatre Studio/Tech/Design II 3 hrs
- TPA 3230C Costume Construction 3 hrs
- TPA 3250C CADD for Theatre 2 hrs
- TPA 3251 Advanced CADD for Theatre 2 hrs
- TPA 4940 Theatre Internship 6 hrs
- TPA 3401 Theatre Careers in Production 3 hrs
- Restricted electives (see list of courses) 20 hrs

4B. Restricted Electives (except where required by a specialization - see specializations for credit hours)

- Chosen from the following
- THE 3230 Cultural Diversity in Theatre 3 hrs
 - THE 4093L Theatre Participation – Management II 1 hr
 - THE 3240 Musical Theatre Survey 3 hrs
 - THE 5307 Contemporary Theatre 3 hrs
 - TPA 3077C Scene Painting 2 hrs
 - TPA 3383C Topics in Technical Theatre 2 hrs
 - TPA 3060C Scene Design for Theatre I 3 hrs
 - TPA 3061C Scene Design for Theatre II 3 hrs
 - TPA 3040C Costume Design for Theatre I 3 hrs
 - TPA 3221 Lighting Design for Theatre I 3 hrs
 - TPA 3260 Sound Design for Theatre I 3 hrs
 - TPA 4041C Costume Design for Theatre II 3 hrs
 - TPA 4224C Lighting Design for Theatre II 3 hrs
 - TPA 4264C Sound Design for Theatre II 3 hrs
 - TPA 4384C Advanced Topics in Technical Theatre 3 hrs
 - TPA 3195L Summer Theatre Studio/Tech/Design I 3 hrs
 - TPA 3197L Summer Theatre Studio/Tech/Design II 3 hrs
 - TPA 2600 Stage Management Basics 3 hrs
 - TPA 3601 Stage Management 3 hrs
 - TPA 4400 Theatre Management 3 hrs
 - TPA 4293L Theatre Participation – Production II 1 hr
 - TPP 3197L Summer Theatre Performance 3 hrs
 - TPP 3952L Summer Studio Performance 3 hrs
 - TPA 4284 Costumes, Architecture and Decor History I 3 hrs
 - TPA 4285 Costumes, Architecture and Decor History II 3 hrs
 - TPP 4143C Acting Styles 3 hrs
 - ARH 2050 History of Western Art I 3 hrs
 - TPA 2248C Makeup Technique 2 hrs
 - THE 2025* Introduction to Theatrical Design 3 hrs
 - TPP 4311* Advanced Directing 3 hrs
 - TPP 4193L Theatre Participation – Performance II 1 hr
 - THE 3905* Independent Study 1-9 hrs
 - DAA 3905* Independent Study 1-9 hrs
 - THE 4954C Theatre Capstone 3 hrs
 - THE 4912* Undergraduate Research 3-6 hrs
 - DAA 4912* Undergraduate Research 3-6 hrs
 - Honors in the Major Directed Readings and Thesis* 3-6 hrs

*Other THE, TPA, TPP, DAA or DAN courses as approved by the department requires instructor and departmental approval in advance

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Theatre course
- Maintain a ‘B’ Theatre GPA (3.0) or better
- Write an Exit Exam Critique of a UCF-affiliated production and pass with a 75% or better score. Complete an Exit Survey
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards

UCF Degree Programs

your total theatre credits.

- Minimum of 60 theatre credits must be completed in residency at UCF
- Computer Competency met by STA 1060C or computer science course

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 129 hrs

Related Programs: Art, Film, Music, Theatre Studies BA

Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- THE 2020: may use any introductory course.
- THE 2304: may use THE 2300
- THE 2090L: may use THE 2925
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1190 or TPP 2110
- TPA 2210: may use TPA 2200 or TPA 2201
- TPA 2201: may use TPA 2200 or TPA 2210

THEATRE - MUSICAL THEATRE TRACK (B.F.A.)

College of Arts and Humanities

Department of Theatre, UTC 180, 407-823-2862

<http://www.theatre.ucf.edu>

Contact: Earl Weaver, 407-823-3638, E-mail: eweaver@mail.ucf.edu

The Bachelor of Fine Arts Track in Musical Theatre serves those students interested in a career on the musical theatre stage. It is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre.

Because of its geographic location, UCF is a top choice for students interested in musical theatre. Walt Disney World, Universal Studios, and the budding expansion of the arts in Central Florida make it necessary for students to receive advanced studies in acting, musical theatre voice, and dance.

Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Production assignments are regulated to serve the artistic growth of students, coordinating production experience with classroom exploration.

Admission Requirements

- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become majors via an interview and audition. For complete information, contact the Department of Theatre or visit the audition site online at <http://www.theatre.ucf.edu>.
- A candidate must present an audition consisting of one monologue and two musical selections. The entire audition should last no more than three minutes. An accompanist will be provided. Recorded accompaniment is not accepted. Candidates must also participate in a dance audition and complete a Music Skills Evaluation Survey. Visit <http://www.theatre.ucf.edu> for details.
- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of interview.
- All BFA musical theatre students are accepted on a "Provisional" basis their first year. Faculty will evaluate their work and decide whether or not the student may continue the program at the end of the first year.
- Departmental scholarship applications are due by March 1. Students may request a scholarship application prior to their audition by contacting the Area Coordinator, or they may complete the application at their audition.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than "C" (2.0) will not be counted in the major.
- Continuation in the BFA program requires a positive annual BFA Review.
- Co-op cannot be used in this major.
- Students must consult with a departmental advisor every semester before registration.
- Departmental Residency Requirement consists of 60 semester hours of courses taken from the UCF Theatre Department
- Prior to graduation, all BFA Musical Theatre majors must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be a front of house position. The fourth assignment may be in any production area.
- All BFA Musical Theatre majors are required to audition for all Fall and Spring productions and must accept the roles assigned.
- Due to its conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the program is not designed for transfer students, transfer students may audition and may be admitted, but they should consult with the Department Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course. Students need not take additional hours to satisfy practicum requirements. Once students have completed their production participation requirements, they may register for a "0" credit participation course to meet departmental registration requirements.
- The department will accept one credit of Theatre Participation coursework for students transferring into the program.
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program

A. Communication Foundations

(36 hrs)

9 hrs

- B. Cultural and Historical Foundations
 Select one course from 1.B.1 list 3 hrs
 Select THE 2020 3 hrs
 Select one course from 1.B.1 or 1.B.2 list 3 hrs
 C. Mathematical Foundations
 Prefer MGF 1106 (may substitute a higher level math) 3 hrs
 Prefer STA 1060C 3 hrs
 D. Social Foundations 6 hrs
 E. Science Foundations 6 hrs

- 2. Common Program Prerequisites (18 hrs)**
 THE 2020* Survey of Theatre for majors GEP
 THE 2304* Script Analysis 3 hrs
 THE 2090L* Theatre Participation – Management I 1 hr
 TPA 2290L* Theatre Participation – Production I 1 hr
 TPP 2190L* Theatre Participation – Performance I 1 hr
 TPA 2201* Technical Theatre Production 2 hrs
 TPA 2201L Technical Theatre Production Lab 1 hr

*Plus an additional 9 hours of THE, TPA, or TPP courses.
 *See Transfer Notes for possible substitutes.

- 3. Specialization: Lower Division (17 hrs)**
 THE 2304* Script Analysis CPP
 MUT 1004 Fundamentals of Music I 3 hrs
 MUT 1111 Music Theory 1A 4 hrs
 TPP 2110C Acting I - Introduction CPP
 TPP 2170C Acting II - The Actor Prepares CPP
 DAA 2200C Ballet I 2 hrs
 DAA 2201C Ballet II 2 hrs
 DAA 2570C Jazz Dance I 2 hrs
 DAA 2571C Jazz Dance II 2 hrs
 DAA 2520C Tap Dance I 2 hrs
 TPA 2248C Make-up Techniques CPP

- 4. Specialization: Upper Division (51 hrs)**
 TPP 3172C Acting III - Building the Character 3 hrs
 TPP 4140C Acting IV – Creating the Role 3 hrs
 TPP 3250 Musical Theatre Acting Perf I 3 hrs
 TPP 3252 Musical Theatre Acting Perf II 3 hrs
 THE 4244 Musical Theatre History I 3 hrs
 THE 4245 Musical Theatre History II 3 hrs
 TPP 3223 Theatre Careers for Performance 3 hrs
 THE 3311 Theatre History and Dram. Lit I 3 hrs
 THE 3312 Theatre History and Dram. Lit II 3 hrs
 TPP 3310C Directing I 3 hrs
 TPA 4293L – or – THE 4093L – or – TPP 4193L 1 hr
 TPP 3257C Musical Theatre Voice I 2 hrs
 TPP 3258C Musical Theatre Voice II 2 hrs
 TPP 4259C Musical Theatre Voice III 2 hrs
 TPP 4923C Musical Theatre Voice IV 2 hrs
 TPP 4270C Musical Theatre Voice V 2 hrs
 TPP 4271C Musical Theatre Voice VI 2 hrs
 TPP 4746C Musical Theatre Voice VII 2 hrs
 TPP 4940L Theatre Internship 6 hrs

- 4A. Movement Electives (2 hrs)**
 TPP 4531C Period Movement 2 hrs
 TPP 3512C Stage Combat 2 hrs
 Any DAA or DAN courses not already required and with departmental approval

- 4B. Restricted Electives (6 hrs)**
 Chosen from the following
 TPP 3730C Voice Production IV 2 hrs
 TPP 4142C Acting V - Verse 3 hrs
 TPP 4265C Acting VI – Acting for TV/Film 3 hrs
 TPP 4268C Acting VII for TV/Film 3 hrs
 THE 3230 Cultural Diversity in Theatre 3 hrs
 THE 5307* Contemporary Theatre 3 hrs
 TPA 3195L Summer Theatre Studio/Tech/Design I 3 hrs
 TPA 3197L Summer Theatre Studio/Tech/Design II 3 hrs
 TPP 3197L Summer Theatre/Performance 3 hrs
 TPP 3952L Summer Studio Performance 3 hrs
 TPP 4143C Acting Styles 3 hrs
 TPA 2600* Stage Management Basics 3 hrs
 TPA 4400 Theatre Management 3 hrs
 TPA 4284 Costumes, Architecture and Decor History I 3 hrs
 TPA 4285 Costumes, Architecture and Decor History II 3 hrs
 TPP 4221 Auditioning 3 hrs
 THE 3313 Theatre History and Dramatic Literature III 3 hrs
 THE 3905* Independent Study 1-9 hrs
 TPP 4311* Advanced Directing 3 hrs
 THE 4093L Theatre Participation – Management II 1 hr
 TPA 4293L Theatre Participation – Production II 1 hr
 TPP 4193L Theatre Participation – Performance II 1 hr
 THE 4912* Undergraduate Research 3-6 hrs
 THE 4954C Theatre Capstone 3 hrs

Honors in the Major Directed Readings and Thesis* 3-6 hrs
 *Other THE, TPA, TPP, DAA or DAN courses not already required and as approved by the department requires instructor and departmental approval in advance

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Theatre course
- Maintain a ‘B’ Theatre GPA (3.0) or better
- Write an Exit Exam Critique of a UCF-affiliated production and pass with a 75% or better score. Complete an Exit Survey
- Minimum of 60 theatre credits must be completed in residency at UCF
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards your total theatre credits.
- Computer Competency met by STA 1060C or computer science course

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 129 hrs

Related Programs: Film, Music, Theatre Studies BA

Related Minors: Music, Film, Theatre, Dance

Transfer Notes:

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- THE 2020: may use any introductory course.
- THE 2304: may use THE 2300
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1190
- TPA 2201: may use TPA 2200 or TPA 2210

THEATRE STUDIES (B.A.)

College of Arts and Humanities

Department of Theatre, UTC 180, 407-823-2862

<http://www.theatre.ucf.edu>

Contact: John Shafer, 407-823-0871, E-mail: jwshafer@mail.ucf.edu

The Bachelor of Arts Degree is designed to offer a thorough foundation in theatre while providing flexibility and opportunity for interdisciplinary study with a required minor. Upon graduation, UCF students can choose to pursue further education or enter the job market with a skill set unique to their goals.

Admission Requirements

- The departmental faculty evaluates, via an interview, students who desire to become BA majors. For complete information, contact the Department of Theatre or visit the audition site online at <http://www.theatre.ucf.edu>.

UCF Degree Programs

- All students must submit a three letters of recommendation, a resume, and transcripts of previous college work at the time of interview

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to complete a minor to graduate.
- Students who complete a double major fulfill the minor requirement automatically.
- Students must maintain a minimum "C" (2.0) overall Theatre GPA to continue in the major
- Co-op credit cannot be used in this major
- Students must consult with a departmental advisor each semester before registering.
- Departmental Residency Requirement consists of at least 30 semester hours of courses taken from the UCF Theatre Department
- Departmental Residency Requirement consists of at least 30 semester hours of courses taken from the UCF Theatre Department
- All BA Theatre Studies students must register for, three semesters of Theatre Participation in addition to the Technical Theatre Production Lab. One of the Participation credits must be as part of a run crew. One of the Participation credits must be as part of a Front of House crew. The other participation credit can be in either performance, shop assignments, run crews or Front of House.
- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course. Students need not take additional hours to satisfy practicum requirements. Once students have completed their production participation requirements, they may register for a "0" credit participation course to meet departmental registration requirements.
- The department will accept one credit of Theatre Participation coursework for students transferring into the program.
- Courses designated in 1 (General Education Program) are usually completed in the first 90 hours
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program

A. Communication Foundations	(36 hrs)
B. Cultural and Historical Foundations	9 hrs
Select one course from 1.B.1 list	9 hrs
Select THE 2020 Survey of Theatre for Majors	3 hrs
Select one course from 1.B.1 or 1.B.2 list	3 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Mathematics	3 hrs
(may substitute a higher level math)	
Prefer STA 1060C Statistics Using Excel	3 hrs
D. Social Foundations	6 hrs
E. Science Foundations	6 hrs

2. Common Program Prerequisites

THE 2020*	Survey of Theatre for majors	(18 hrs)
THE 2304	Script Analysis	GEP
THE 2090L*	Theatre Participation – Management I	3 hrs
TPA 2290L*	Theatre Participation – Production I	1 hr
TPP 2190L*	Theatre Participation – Performance I	1 hr
TPA 2201*	Technical Theatre Production	2 hrs
TPA 2201L	Technical Theatre Production Lab	1 hr

*Plus an additional 9 hours of THE, TPA, or TPP courses.

*See Transfer Notes for possible substitutes

3. Core requirements

TPP 2101	Fundamentals of Acting I	(12 hrs)
THE 2304	Script Analysis	CPP
THE 3311	Theatre History/ & Dram. Lit. I	3 hrs
THE 3312	Theatre History/ & Dram. Lit. II	3 hrs
THE 3313	Theatre History & Dram. Lit. III	3 hrs
TPP 2700C	Stage Voice/Speech	CPP
TPP 3310C	Directing I	3 hrs

4. Restricted Electives

Select 16 hours from the following	(16 hrs)	
THE 3230	Cultural Diversity in Theatre	3 hrs
THE 3082	Theatre Careers	3 hrs
TPP 4143C	Acting Styles	3 hrs
TPP 3264C	Acting on Camera	3 hrs
THE 2025	Intro to Theatrical Design	3 hrs

TPP 4221*	Auditioning	3 hrs
THE 3240	Musical Theatre Survey	3 hrs
THE 4093L*	Theatre Participation-Management II	1 hr
TPA 4293L*	Theatre Participation-Production II	1 hr
TPP 4193L*	Theatre Participation-Performance II	1 hr
THE 5307*	Contemporary Theatre	3 hrs
TPA 2248C*	Makeup Technique	2 hrs
TPA 4284	Costumes, Architecture, and Decor, History I	3 hrs
TPA 4285	Costumes, Architecture, and Decor History II	3 hrs
TPA 3195L	Summer Theatre Studio/Tech/Design I	3 hrs
TPA 3197L	Summer Theatre Studio/Tech/Design II	3 hrs
TPA 2600*	Stage Management Basics	3 hrs
TPA 4400	Theatre Management	3 hrs
TPP 3103	Intermediate Acting	3 hrs
TPP 3197L	Summer Theatre/Performance	3 hrs
TPP 3952L	Summer Studio Performance	3 hrs
TPP 4311C*	Advanced Directing	3 hrs
Any DAA or DAN courses with instructor and departmental approval		2-8 hrs
THE 3930*	Independent Study	1-12 hrs
THE 4912*	Undergraduate Research	3-6 hrs
THE 4954C	Theatre Capstone	3 hrs
Honors in the Major Directed Readings and Thesis*		3-6 hrs

*Other THE, TPA, or TPP courses as approved by the department requires instructor and departmental approval in advance

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- Write an Exit Exam Critique of a UCF-affiliated production and pass with a 75% or better score. Complete an Exit Survey
- Computer Competency met by STA 1060C or Computer Science Course
- Minimum of 30 theatre credits must be completed in residency at UCF

6. Foreign Language Requirements

(0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Required Minor

(18 hours minimum)

Theatre Studies BA students must complete a minor of at least 18 hours. See discipline for Minor requirements, information, and changes. University upper division credit hour requirements must be met. Students are discouraged from taking excess hours and should consider total credit hours required when selecting a minor. Students are free to pursue any minor open to them, but are encouraged to participate in the department's Associated Minor program which provides additional career/advising support targeted at specific career paths. Please see the departmental handbook for a more complete description of the program and a list of Associated Minors. Participation in an Associated Minor must be approved after interview with the Area Coordinator of BA Theatre Studies.

8. Electives

(variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required

120 hrs

Related Programs: Art, Film, Music, Theatre BFA

Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Courses transferred from private and out-of-state schools must

be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- THE 2020: may use any introductory course.
- THE 2304 (Script Analysis): may use THE 2300 or THE 3305
- THE 2090L: may use THE 2925
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1110 or THE 4093L or TPA 4293
- TPA 2201: may use TPA 2200 or TPA 2210



MINORS AND CERTIFICATES

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

Minors

Accounting
Aerospace Studies
African - American Studies
Aging Studies
American Humanics
American Sign Language and Deaf Studies
American Studies
Anthropology
Anthropology in Multicultural Studies
Art History
Art - Studio
Asian Studies
Astronomy
Biology
Business
Chemistry
Coaching
Cognitive Sciences
Communication Sciences & Disorders
Community Arts - PAVE
Computer Science
Criminal Justice
Dance
Digital Media
Early Childhood Education
Economics
Emergency Management & Homeland Security
Engineering Leadership
English - Creative Writing
English - Linguistics
English - Literature
English - Technical Writing and Editing
English - Writing
Entrepreneurship: Business
Environmental Studies
European Studies
Exceptional Education
Film - Cinema Studies
Finance
Fitness Training
French
German
Health Information Management
Health Sciences
Health Services Administration
History
Hospitality Management
Humanities
Information Technology
Intelligent Robot Systems - Interdisciplinary
Interdisciplinary Informatics Technology
International and Global Studies

International Business
Interpersonal Communication
Italian
Judaic Studies
Latin American Area Studies
Legal Studies
Magazine Journalism
Management Information Systems
Marketing
Mass Communication
Mathematics
Middle Eastern Studies
Military Science
Molecular Biology and Microbiology
Music
North American Indian Studies
Operations Management/Enterprise Systems
Organizational Communication
Philosophy
Philosophy, Religion and Popular Culture
Physics
Political Science
Political Science/Prelaw
Psychology
Public Administration
Real Estate
Recreation
Religious Studies
Secure Computing and Networks
Social Sciences - Interdisciplinary
Sociology
Space Studies
Spanish
Sport Business Management
Statistics
Technical Education and Industry Training
Technology and Society
Theatre
Urban and Regional Planning
Women's Studies
World Comparative Studies

Certificates

Addictions Certificate
Aging Studies Certificate
American Sign Language Certificate
Behavioral Forensics Certificate
Children's Services Certificate
Crime Analysis and Crime Mapping Certificate
Crime Scene Investigation Certificate
Criminal Profiling Certificate
Cultural Tourism Certificate
Digital Media Certificate

Finance: Banking Certificate
Finance: Corporate Finance Certificate
Finance: Investments Certificate
Judaic Studies Certificate
Language Development and Disorders Certificate
Marketing: Selling and Sales Management Certificate
Marketing: Retailing Management Certificate
Marketing: e-Marketing Certificate
Marketing: Sport Marketing Management Certificate
Marketing: Healthcare Marketing Certificate
Marketing: Services Marketing Certificate
Marketing: Entertainment Marketing Certificate
Nonprofit Management Certificate
Real Estate: Real Estate Brokerage Certificate
Real Estate: Real Estate Appraisal Certificate
Real Estate: Mortgage Brokerage Certificate
Security Management Certificate
Service-Learning Certificate
Substitute Teaching
Translation and Interpretation Certificate
Victim Advocacy
Women's Studies Certificate

Additional UCF Programs

Study Abroad Programs:

Australia
Austria
Costa Rica
England
France
Germany
Honduras
Ireland
Italy
Japan
Mexico
Peru
Russia
Scotland
Spain
Sweden
Switzerland

ACCOUNTING:

Minor for Business and Non-Business Majors
College of Business Administration
School of Accounting, BA 437, (407) 823-2871

Credit Hour Requirements **21 hrs**

Required Courses **(9 hrs)**

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs

Select one of the following (may not be counted as an elective if selected as a required course):

ACG 3131	Financial Accounting Concepts and Analysis	3 hrs
ACG 3361	Intermediate Managerial Accounting	

Restricted Electives **(12 hrs)**

Select four from the following (at least two courses must have either an ACG or TAX prefix)

ACG 3131	Financial Accounting Concepts and Analysis	3 hrs
ACG 3361	Intermediate Managerial Accounting	3 hrs
ACG 3141	Intermediate Financial Accounting	3 hrs
ACG 3501	Accounting and Auditing in the Public Sector	3 hrs
ACG 4401C	Accounting Information Systems	3 hrs
ACG 4651	Auditing	3 hrs
ACG 4671	Internal Auditing	3 hrs
ACG 4932	Approved Special Topics Courses in Accounting	3 hrs
TAX 4001	Taxation of Business Entities and Transactions	3 hrs
FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 4453	Financial Models	3 hrs
ISM 3253	MIS Techniques	3 hrs
ISM4212	Database Management Systems	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

AEROSPACE STUDIES: Minor

College of Engineering and Computer Science
Air Force ROTC, TR 501 103

Contact: Col. William G. Palmbly, 407-823-1247

Credit Hour Requirements **16 hrs**

Required Courses **(16 hr)**

AFR 1101C	The Air Force Today I	1 hr
AFR 1111C	The Air Force Today II	1 hr
AFR 2130C	The Development of Air Power I	1 hr
AFR 2131C	The Development of Air Power II	1 hr
AFR 3220C	Air Force Leadership and Management I	3 hrs
AFR 3230C	Air Force Leadership and Management II	3 hrs
AFR 4201C	Nat Scrtly Affairs & Prep for Active Duty I	3 hrs
AFR 4210C	Nat Scrtly Affairs & Prep for Active Duty II	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

AFRICAN-AMERICAN STUDIES: Minor

College of Arts and Humanities
African American Studies Program, CNH 201G
<http://www.cas.ucf.edu/africanamericanstudies>

Contact: J. Stephenson, 407-823-0026

The African American Studies minor is designed to complement a student's major area of study. The minor requires a core of African American Studies courses as well as a selection of directed electives in Fine Arts, History, English, Modern Languages, Music, Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

Credit hour Requirements **18 hrs**

Required Courses **(6 hrs)**

AFA 3104	The African American Experience	3 hrs
AMH 3571	Black American History I	3 hrs

Restricted Electives **(12 hrs)**

AFA 3102	Introductory Perspectives on African American Studies
AFA 2300	African American Music
AFA 3955	Study Abroad in the Caribbean
AMH 3572	Black American History II
AML 3614	Topics in African-American Literature
AML 3615	Harlem, Haiti, & Havana
ARH 3520	African Art
INR 3253	International Politics of Africa
FIL 3412	Black Cinema
LAH 3470	History of the Caribbean
LAS 4023	Afr Caribbean Experience
LIT 3192	Caribbean Literature
MUL 2016	Evolution of Jazz
POS 4622	Politics & Civil Rights
PUP 3314	Minorities in American Politics
SOP 3724	The Psychology of Racial Prejudice
SYD 3700	Race and Ethnic Minorities in the U.S.

Additional courses may be used only with the prior permission of the program Director.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without the approval of the program coordinator.

AGING STUDIES: Minor

College of Health and Public Affairs
School of Social Work, HPA1 204
E-mail: socialwk@mail.ucf.edu

BSW Coordinator: HPA1 204, 407-823-2114

In recognition of the special needs of older adults in Central Florida, the University offers an eighteen-hour interdisciplinary program leading to a Minor in Aging Studies. The Minor is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. Students may complete the Aging Studies minor (with the exception of the internship requirement) as a fully web-based program. Students must contact the coordinator to plan their internship the semester prior to the semester they intend to complete the internship.

Credit Hour Requirements **18 hrs**

Required Courses **(3 hrs)**

GEY 3001W	Gerontology: Interdisciplinary Overview	3 hrs
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Required Internship: 120 hours

Select one:

SOW 4510	Field Education	9 hrs
HSA 4941	Internship	3 hrs
PSY 3951	Internship	3 hrs
SYP 4941	Internship	3 hrs

Electives **(12 hrs)**

Students select **four** additional courses from the following: A maximum of **two** courses in their College and at least **two** courses must be outside their college.

Minors

College of Health and Public Affairs

HSA 4220	Long Term Care	3 hrs
HSA 3222	Long Term Administration	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
NUR 4286*	Gerontologic Nursing	3 hrs
PLA 4530	Legal Issues of the Elderly	3 hrs
SOW 4645	Social Services for the Elderly	3 hrs

Other Colleges

DEP 3464	Psychology of Aging	3 hrs
SYP 4730	Sociology of Aging	3 hrs
GEY 5007	Women and Aging	3 hrs
LIT 3930	Literature of Aging	3 hrs
SYP 4734	Minority Aging	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor
- Grades less than "C" (2.0) are not accepted
- At least 12 hours used in the minor must be earned at UCF within the program
- No credit by exam (TSD, Military credit) may be used
- Independent Study credit may not be used toward the minor

AMERICAN HUMANICS: Minor

American Humanics Minor with National Certificate College of Health and Public Affairs E-mail: ahminor@mail.ucf.edu

Campus Director: Stephanie Krick, MPA, ABD, 407-823-0661

The American Humanics Minor at the University of Central Florida will provide interdisciplinary classroom experience and experiential learning opportunities for students and community residents planning a career as a nonprofit professional working with America's youth and families. This minor will result in a National Certification in American Humanics Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements (18 hrs) Required Courses (6 hrs)

PAD 3931	American Humanics Human Service Workshop (1 credit repeated three semesters)	3 hrs
PAD 4948	American Humanics Internship	3 hrs

internship within other programs may be accepted with prior approval of American Humanics advisor.

Students can earn the remaining 12 credit hours by pursuing either the Generalist Emphasis or the Public Affairs Emphasis. The requirements for each are as follows:

Generalist Emphasis

Restricted Electives (12 hrs) Choose at least one course from each of the following four groups.

Group I: General Nonprofit Management, Volunteerism and Human Development 3 hrs

EDG 4941	Directed Field Experience	
PAD 4144	Nonprofit Organizations	
PAD 4148	Volunteer Management	
*SOW 3203	Social Welfare and Community Resources	
*SOW 3104	Assessing I - Human Development	
DEP 2004	Developmental Psychology	
PPE 3003	Personality Theory	
DEP 3464	Psychology of Aging	

Group II: Planning & Evaluation and Human Resource Development 3/4 hrs

PAD 4144	Nonprofit Organizations	3 hrs
PAD 4153	Strategic Planning & Implementation	3 hrs
PAD 4325	Program Evaluation for the Public and Nonprofit Organizations	3 hrs
PAD 4414	Human Resource Management	3 hrs
*SOW 3401	Social Work Research Methods	3 hrs
MAN 3025	Management of Organizations	4 hrs
MAN 3301	Human Resource Management	3 hrs
MAN 4101	Human Relations in Management	3 hrs
MAN 4320	Human Resources, Recruitment & Selection	3 hrs

Group III: Communication & Marketing 3/4 hrs

PAD 4144	Nonprofit Organizations	3 hrs
*SOW 3352	Practice II: Interpersonal Skills	3 hrs
COM 3110	Business & Professional Communications	3 hrs
GEB 3031	The Cornerstone Course	4 hrs
MAR 3023	Marketing	4 hrs
MAR 3641	Marketing Intelligence	3 hrs
MAR 4803	Marketing Management	3 hrs

Group IV: Nonprofit Accounting & Financial Management and Fund Raising Principles & Practices. 3 hrs

PAD 4144	Nonprofit Organizations	
ACG 2021	Financial Accounting	
ACG 2071	Managerial Accounting	
PAD 5850	Grant and Contract Management	
PAD 4204	Fiscal Management	
PAD 4131	Public Sector Project Management	
PAD 4147	Resource Development in the Nonprofit Sector	

Or

Public Affairs Emphasis

Restricted Electives Choose at least two from the following (6 hrs)

PAD 4131	Public Sector Project Management	
PAD 4144	Non-Profit Organizations	
PAD 4147	Resource Development in the Nonprofit Sector	
PAD 4204	Fiscal Management	
PAD 4325	Program Evaluation for the Public and Non-Profit Organizations	

Restricted Electives Choose at least two from the following (6 hrs)

PAD 4148	Volunteer Management	
PAD 4153	Planning and Improvement for Public Organizations	
PAD 4223	Public Budgeting	
PAD 4253	Community and Economic Development	

*Open only to SOW majors

Other Requirements

- Enrollment in American Humanics Certificate Program through AH program office.
- Attendance at one national American Humanics Management Institute (additional fees)
- Membership in UCF American Humanics Student Association

AMERICAN SIGN LANGUAGE AND DEAF STUDIES: Minor

College of Health and Public Affairs Department of Communication Sciences and Disorders, HPA2, Suite 101

<http://www.cohpa.ucf.edu/comdis>

Chair: R. Jane Lieberman, 407-823-4798;

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,

E-mail: jschwartz@mail.ucf.edu

The American Sign Language and Deaf Studies Minor addresses a growing interest in Deaf culture in the United States. Through the minor students not only acquire a non-Indo European, second language that they may use to communicate with the Deaf community, but they also discover a rich and complex cultural group. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in liberal studies, education, criminal justice, health professions, social work, psychology, sociology, and interpersonal and organizational communication. Additionally, a minor in American Sign Language and Deaf Studies will serve as a valuable confirmation for employers and graduate schools of a student's specialized knowledge and as a foundation for future study in interpreter or deaf education.

Credit Hour Requirements 22 hrs Required Courses

SPA 2631	Issues in Deafness	3 hrs
SPA 2612	Introduction to American Sign Language	4 hrs
SPA 2613	Intermediate American Sign Language	4 hrs
SPA 4614C	American Sign Language III	4 hrs
SPA 4615	American Sign Language IV	4 hrs
SPA 4634	Educational Implications of Deafness	3 hrs

Other Requirements

- A minimum of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the minor.
- At least 12 hours used in the minor must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit), Internship or Independent Study credit may be used toward the minor.

AMERICAN STUDIES: Minor

College of Arts and Humanities

<http://www.cas.ucf.edu>

Contact: Consuelo Stebbins, 407-823-2292,

E-mail: stebbins@mail.ucf.edu

Credit Hour Requirements
Required Courses

21 hrs
(9 hrs)

Select one course in each of the three categories below
Literature and Humanities

AML 3031	American Literature I
AML 4101	American Novel
AML 4261	Literature of the South
AML 3682	Ethnic Literature in America

Social Sciences

POS 3413	The American Presidency
POT 3204	American Political Thought
SYD 3700	Race and Ethnic Minorities in the U.S.
SYP 3630	Sociology of Popular Culture

History

AMH 3561	Women in American History I
AMH 4110	Colonial America, 1607-1763
AMH 4130	The Age of the American Revolution
AMH 4311	American Culture I
AMH 4313	American Culture II

Restricted Electives

(12 hrs)

A list can be obtained by meeting with an advisor to plan your course of study.

Other Requirements

- Students must earn at least a "C" (2.0) in each course used to satisfy the minor.
- At least eighteen credit hours must be earned in upper level credits.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ANTHROPOLOGY: Minor

College of Sciences

Department of Anthropology, PH 309

<http://www.cos.ucf.edu/anthropology>

E-mail: anthropology@ucf.edu

Contact: A. Chase, 407-823-2227

The Anthropology minor develops a student's holistic understanding of the past and present human condition. Four different concentrations are delimited within the Anthropology minor.

Credit Hour Requirements

18 hrs

A. Concentration in General Anthropology

The following 2000 level courses must be taken (12 hrs)

ANT 2000	General Anthropology
ANT 2100	Archaeology & Rise of Human Culture
ANT 2410	Cultural Anthropology
ANT 2511	The Human Species

Select two upper level (3000-5000) courses in Anthropology (6 hrs)

B. Concentration in Archaeology

The following 2000 level courses must be taken: (6 hrs)

ANT 2000	General Anthropology
ANT 2100	Archaeology & Rise of Human Culture

Select from the following (12 hrs)

ANT 4101	Archaeological Sciences (or ANG 5100)
ANT 3158	Florida Archaeology
ANT 3115	Archaeological Method and Theory
ANT 3142	Old World Prehistory
ANT 3145	Archaeology of Complex Societies
ANT 3163	Mesoamerican Archaeology
ANT 3164	Ancient Incas
ANT 3168	Maya Archaeology (or ANG 6168)
ANT 4184	Mortuary Archaeology (or ANG 5741)
ANT 3358	Life and Death in Ancient Egypt
ANT 4144	Prehistory of North America
ANT 4153	North American Archaeology
ANT 4180C	Seminar in Laboratory Analysis (or three 1 hr labs)
ANT 4824	Advanced Archaeological Field Work

ANG 5165	Maya Field Research
ANG 5166	Problems of Maya Studies
ANG 5167	Maya Hieroglyphs
ANG 5228	Maya Iconography

C. Concentration in Physical Anthropology

The following 2000 level courses must be taken: (6 hrs)

ANT 2000	General Anthropology
ANT 2511	The Human Species

Take four of the following courses: (12 hrs)

ANT 4184	Mortuary Archaeology (or ANG 5741)
ANT 4467	Nutritional Anthropology (or ANG 5467)
ANT 3541	Biobehavioral Anthropology
ANT 3550	Primatology
ANT 4521C	Forensic Anthropology
ANT 4462	Medical Anthropology
ANT 4516	Human Biological Diversity
ANT 4525C	Human Osteology
ANT 4528C	Advanced Forensic Anthropology
ANT 4586	Human Origins
ANG 5742	Problems in Forensic Anthropology

D. Concentration in Cultural Anthropology

The following 2000 level courses must be taken: (6 hrs)

ANT 2000	General Anthropology
ANT 2410	Cultural Anthropology

Take four of the following courses: (12 hrs)

ANT 3212	Peoples of the World
ANT 3241	Magic, Ritual, and Belief
ANT 3245	Native American Religions
ANT 3262	Rural Society
ANT 3273	Law and Culture
ANT 3302	Sex, Gender and Culture
ANT 3311	Indians of the SE US
ANT 3312	Ethnology of North Amer Indians
ANT 3313	Indians of N Amer High Plains
ANT 3314	Indians of the Northeast Woodlands
ANT 3316	Black/Seminole Relations
ANT 3318	Indians of the Northwest Coast
ANT 3320	Indians of the Southwest
ANT 3164	Ancient Incas
ANT 4332	Peoples and Culture of Latin America (or ANG 5307)
ANT 4438	Anthropology of Tourism (or ANG 5437)
ANT 3701	Applied Anthropology
ANT 4702	Culture, Power, and Development (or ANG 5272)
ANT 4802	Ethnographic Field Methods
ANT 3363	Anthropology of Japan
ANT 3640	Language and Culture (or ANG 5620)
ANT 4340	Caribbean Cultures (or ANG 5341)
ANT 3319	The Anthropology of Diaspora
ANT 4034	History of Anthropological Thought
ANT 4266	Economic Anthropology
ANT 4308	Gender Issues in Latin America
ANT 4352	African Societies and Cultures
ANT 4354	Postcolonial Africa
ANG 5167	Maya Hieroglyphs
ANG 5228	Maya Iconography
ANG 5622	Language, Culture, and Pedagogy
ANG 6324	Contemporary Maya

Other Requirements

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor

College of Sciences

Department of Anthropology, PH 309

<http://www.cos.ucf.edu/anthropology>

E-mail: anthropology@ucf.edu

Contact: A. Chase 407-823-2227

This minor develops a student's understanding of the recent dilemmas of Hispanic, Native American, and Pacific Rim cultures, sex, and gender controversies in societies, and the theoretical and practical issues of modern applied anthropology. The minor is especially appropriate for students majoring in political science, international business, or for any student seeking an enhanced understanding of contemporary cultural relations.

Minors

Credit Hour Requirements

Required Course

Select one of the following:

ANT 2000	General Anthropology
ANT 2410	Cultural Anthropology

18 hrs
(3 hrs)

Restricted Electives

(15 hrs)

Select five of the following. Substitutions require prior consent of the Anthropology Coordinator.

ANT 3164	Ancient Incas
ANT 3212	Peoples of the World
ANT 3241	Magic, Ritual, and Belief
ANT 3245	Native American Religions
ANT 3302	Sex, Gender and Culture
ANT 3312	Ethnology of North Amer Indians
ANT 4332	People and Cultures of Latin America (or ANG 5307)
ANT 3640	Language and Culture (or ANG 5620)
ANT 4340	Caribbean Cultures (or ANG 5341)
ANT 3316	Black/Seminole Relations
ANT 3319	The Anthropology of Diaspora
ANT 3541	Biobehavioral Anthropology
ANT 4438	Anthropology of Tourism (or ANG 5437)
ANT 4467	Nutritional Anthropology (or ANG 5467)
ANT 3701	Applied Anthropology
ANT 4702	Culture, Power, and Development (or ANG 5272)
ANT 4266	Economic Anthropology
ANT 4308	Gender Issues in Latin America
ANT 4516	Human Biological Diversity
SYD 3700	Race and Ethnic Minorities in the US

Other Requirements

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

ART HISTORY: Minor

College of Arts and Humanities

Art Department, VAB 117

<http://www.art.ucf.edu/>

E-mail: art@ucf.edu

Contact: J. Chavda, 407-823-2676

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Credit Hour Requirements

Required Courses

ARH 2050	The History of Art I
ARH 2051	The History of Art II
ARH 4310	Italian Renaissance Art
ARH 4430	19th Century Art
ARH 4450	20th Century Art

27 hours
(15 hrs)

Non-western Course Requirement

Select from the following:

ARH 4545	Art of India
ARH 3520	African Art
ARH 4655	Meso American Art

(3 hrs)

Restricted Elective:

ARH 4350	Baroque Art
ARH 4200	Medieval Art
ARH 4892	Women in Art
ARH 4800	Theory and Criticism of the Visual Arts

(3 hrs)

6 hours of electives

Two additional ARH 3XXX-4XXX courses

(6 hrs)

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least two of the required courses must be regularly scheduled 3000-4000 level courses in a single area of specialization in the Art Department.

- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ART - STUDIO: Minor

College of Arts and Humanities

Art Department, VAB 117

<http://www.art.ucf.edu/>

E-mail: art@ucf.edu

Contact: J. Chavda, 407-823-2676

Credit Hour Requirements

Required Courses

ARH 2050	History of Western Art I	3 hrs
ARH 2051	History of Western Art II	3 hrs
ART 2201C	Design Fundamentals 2-D	3 hrs
ART 2203C	Design Fundamentals 3-D	3 hrs
ART 2300C	Drawing Fundamentals I	3 hrs
ART 2301C	Drawing Fundamentals II	3 hrs

24 hrs
(18 hrs)

Restricted Upper Division Courses

(6 hrs)

Six semester hours of studio art in one area of specialization at the 3000-4000 level

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least six of the required hours must be regularly scheduled 3000-4000 level courses in one area of specialization and taken at UCF.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ASIAN STUDIES: Minor

College of Arts and Humanities

<http://www.cas.ucf.edu/>

Contact: E-mail: pmurphy@mail.ucf.edu

An interdisciplinary minor in which several UCF departments participate in order to offer students a basic and well-rounded background in the field. Courses are to be selected in consultation with a departmental advisor.

Credit Hour Requirements

Required Course

HUM 3401	Asian Humanities
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21 hours
(3 hrs)

Restricted Electives

(18 hrs)

Approved courses (see department for listing)

Foreign Language Requirement

(0-8 hrs)

One year or the equivalent proficiency examination. Students taking foreign language classes must complete at least six hours in the sequence chosen (e.g. Chinese, Japanese).

Other Requirements

- Students must earn at least a "C" (2.0) in each course used to satisfy the minor.
- At least fifteen credits hours must be earned in upper level credits.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used in the minor without prior approval by the director.

ASTRONOMY: Minor**College of Sciences****Department of Physics, MAP 310****E-mail: physics@ucf.edu***Contact: Humberto Campins, 407-823-2325***Credit Hour Requirements****Required Course**

PHY 2048	Physics for Engineers & Scientists I	3 hrs
AST 2002	Astronomy	3 hrs
AST 3722C	Tech of Observational Astronomy	3 hrs
AST 3110	Solar System Astronomy	3 hrs
AST 3211	Stellar Astrophysics	3 hrs
AST 3402	Galaxies and Cosmology	3 hrs

**20 hrs
(18 hrs)****Restricted Electives****(2 hrs)**

Select either:

PHY 2049	Physics for Engineers & Scientists II <i>or</i>	3 hrs
PHY 2048L	Physics for Engineers and Scientists I Lab <i>and</i>	1 hr
AST 2002L	Astronomy Lab	1 hr

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

BIOLOGY: Minor**College of Sciences****Biology Department, BL 301**<http://www.cos.ucf.edu/biology>**E-mail: biology@ucf.edu***Contact: F. Logiudice, 407-823-2141***Credit Hour Requirements****Required Courses****31 hrs
(31 hrs)**

BSC 2010C	Biology I	4 hrs
BSC 2011C	Biology II	4 hrs
CHM 2045C*	Chemistry Fundamentals I	4 hrs
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2210	Organic Chemistry	3 hrs
PCB 3023	Molecular Cell Biology	3 hrs
PCB 3044	Principles of Ecology	3 hrs
PCB 3063	Genetics	3 hrs
PCB 4683	Population Biology and Evolution	4 hrs

*CHM 2040C plus CHM 2041C can substitute for CHM 2045C

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
- Not open to Biology or Biology Preprofessional majors.

BUSINESS: Minor for Non-Business Majors**College of Business Administration****BA2-101***Contact: Undergraduate Student Services, BA2 101, (407) 823-2184***Credit Hour Requirements****Required Accounting Courses****24 hrs
(6 hrs)**

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting

Required Courses**(18 hrs)**

ECO 2013	Macroeconomics
ECO 2023	Microeconomics
FIN 3403	Business Finance
MAN 3025	Management of Organizations
MAR 3023	Marketing

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least twelve hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

CHEMISTRY: Minor**College of Sciences****Department of Chemistry, CH 117**<http://www.cos.ucf.edu/chemistry>**E-mail: chemistry@ucf.edu***Contact: Cherie Geiger***Credit Hour Requirements****Required Courses****28 hrs
(21 hrs)**

CHM 2045C*	Chemistry Fundamentals I	4 hrs
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2046L	Chemistry Fundamentals Laboratory	1 hr
CHM 2210	Organic Chemistry I	3 hrs
CHM 2211	Organic Chemistry II	3 hrs
CHM 2211L	Organic Laboratory Techniques I	2 hrs
CHM 3120	Analytical Chemistry	5 hrs

*CHM 2040C plus CHM 2041C can substitute for CHM 2045C

Restricted Upper Division Electives**(7 hrs)**

At least one course must be selected from group I and the remaining from group I and/or II:

Group I: Select at least one course

CHM 3212L	Organic Laboratory Techniques II
CHM 4130	Advanced Analytical Laboratory Technique
BCH 4103L	Biochemical Methods
CHS 3530C	Forensic Analysis of Controlled Substances
CHM 3411L	Physical Chemistry Laboratory
CHM 5451C	Polymer Chemistry Laboratory

Group II:

BCH 4053	Biochemistry I
BCH 4054	Biochemistry II
CHM 3410	Physical Chemistry I
CHM 3411	Physical Chemistry II
CHM 3422	Applied Physical Chemistry
CHM 5225	Advanced Organic Chemistry I
CHM 4220	Organic Chemistry III
CHS 4200	Concepts in Industrial Chemistry
CHM 5235	Applied Molecular Spectroscopy
CHM 5450	Polymer Chemistry
CHS 4615	Environmental Chemistry

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department, with a minimum GPA of 2.0.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

COACHING: Minor**College of Education****Department of Teaching and Learning Principles****ED 209**<http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm>*Program Coordinator: Dr. Patricia Higginbotham*ED 320-H, 407-823-2050, E-mail: higginbp@mail.ucf.edu

The coaching minor is designed to provide a limited, but substantive experience in the field of coaching. The state of Florida requires a coaching endorsement, which includes nine hours (Human Injuries,

Minors

Coaching Theory, and a Coaching Specialization course), for all persons certified to teach. This minor is appropriate for those students who plan to coach and/or are seeking a career in the fields of Physical Education and sport. The following courses will give the student a coaching endorsement as well as strengthen the marketability of the student's major program. This Minor is available for students in the 2001 Catalog Year and beyond.

Credit Hour Requirements **18 hrs**
Required Courses **(18 hrs)**

*PET 2622C	Human Injuries	3 hrs
PET3765	Coaching Theory	3 hrs
PET3493	Sports Ethics	3 hrs
PET4215	Motivational Aspects of Athletic Performance	3 hrs
PET 4763	Coaching Methods and Principles	3 hrs

Select one course from the following:

PEO2624	Coaching Football <i>or</i>	3 hrs
PEO3644	Coaching Basketball <i>or</i>	
PEO3324	Coaching Volleyball	

*If the student has completed this course at a community college it can be transferred into the program.

Other Requirements

- An overall GPA of 2.0 is required to satisfy the minor.
- No grades below "C-" (1.75) and no "S" grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No TSD or Military credit may be used.
- Internship or Independent Study credit cannot be used toward the minor.

COGNITIVE SCIENCES: Minor

College of Arts and Humanities
Philosophy Department, CNH 411
<http://www.cas.ucf.edu/philosophy/>
E-mail: philosophy@ucf.edu

Contact: Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

The cognitive sciences minor provides an interdisciplinary approach to the study of mind, brain, and cognition, broadly construed. It complements the background of students intending to pursue graduate degrees in cognitive science, computer science, philosophy, psychology, biology, neuroscience, and medicine, as well as students with more immediate career goals in fields such as neural network modeling, neuroimaging, information technology, clinical or counseling psychology, biotechnology, and others.

Credit Hour Requirements **21 hrs**

Note: It is the student's responsibility to satisfactorily complete all prerequisite courses prior to registering for each course. Students must check the most current catalog before registering, and abide by the prerequisites in effect at that time.

Foundation Courses **(15 hrs)**

Select from at least 4 subject areas

Neuroscience

PSB 3002	Physiological Psychology (PR: PSY 2012)
PSB 4240C	Neuropsychology (PR: PSB 3002)
ZOO 744	Neurobiology (PR: BSC 2010C)
PSB 4422	Brainwaves and Behavior (PR: PSB 3002)

Philosophy

PHI 3320	Philosophy of Mind (PR: PHI 2010 or C.I.)
PHI 3323	Minds and Machines (PR: PHI 2010 or C.I.)
PHI 4341	Ways of Knowing (PR: PHI 2010)
PHI 3451	Philosophy of Psychology (PR: Junior or C.I.)
PHI 4400	Philosophy of Science

Psychology

EXP 3604C	Cognitive Psychology (PR: PSY 2012)
EXP 4507C	Advanced Human Memory and Cognition (PR: PSY 3213C and EXP 3604C)
EXP 3204C	Perception (PR: PSY 2012, PSY 3213C)

Computer Science and Information Technology

CAP 4453	Robot Vision (PR: COP 3530C and MAC 2312, or C.I.)
CAP 4630	Artificial Intelligence (PR: COP 3530C)
EEL 3520	Information Theory (PR: MAC 2147 or any calculus course; not open to EE or CpE majors)
EEL 3552C	Signal Analysis & Communications (PR: EEL 3004)

Language and Linguistics

LIN 3010	Principles of Linguistics (PR: ENC 1102)
LIN 3716	Language Development: Birth Through 8 Years

(PR: DEP2004)

LIN 3717 Language Development: 9-18 Years (PR: LIN 3716)
LIN 3640 Psychology of Oral Communication

Restricted Electives

(6 hrs)

ANT 3541 Biobehavioral Anthropology
ANT 3550 Primatology (PR: ANT 2511 or C.I.)
ANT 3640 Language and Culture (PR: Sophomore standing)
ANT 4586 Human Origins (PR: ANT 2511)
CAP 4630 Introduction to Artificial Intelligence (PR: COP 3530C)
COP 4520 Concepts of Parallel Distributed Processing (PR: COP 3530C and COP 3402)
CAP 5015 Multimedia Compression on the Internet (PR: senior or graduate student)
CAP 5415 Computer Vision (PR: COP 3530C)
CAP 5512 Evolutionary Computing
COP 4520 Concepts of Parallel and Distributed Processing (PR: COP 3530C and COP 3402)
LIN 4711 Language Analysis (PR: LIN 3716 and LIN 3717)
LIN 4711L Language Analysis Lab (PR: LIN 3716 and LIN 3717)
PHI 3626 Advanced Ethics in Science and Technology (PR: COP 3502C or DIG 2000 or C.I.)
PHI 2101 Critical Thinking
PHI 2101 Formal Logic I
PHI 4500 Metaphysics (PR: Philosophy Major or C.I.)
PHI 4321 Philosophies of Embodiment (PR: Junior standing and either PHI 2010, PHI 2011, PHI 2101, or C.I.)
MAP 4103 Mathematical Modeling I (PR: MAC 2311 or MAC 2281, and MAP 2302)
PSY 4025 The Psychology of Art (PR: PSY 2012 and ARH 205x)
PSY 3213C Research Methods in Psychology (PR: PSY 2012 and STA 2014C or STA 2023)
EXP 3204C Perception (PR: PSY 2012 and PSY 3213C)
(Electives may also be chosen from Required Courses above)

Other Requirements

- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- 18 hours must be taken at the upper division.
- No more than 10 credit hours may be used both toward credit for a major and the cognitive sciences minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study require prior approval from the advisors to be used toward the minor.

COMMUNICATION SCIENCES AND DISORDERS: Minor

College of Health and Public Affairs
Department of Communication Sciences and Disorders
<http://www.cohpa.ucf.edu/comdis>
HPA2, Suite 101

Chair: R. Jane Lieberman, 407-823-4798;

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,

E-mail: jschwartz@mail.ucf.edu

Credit Hour Requirements **22 hrs**

Required Courses

SPA 3471	Communication Disorders In Literature and Media	3 hrs
SPA 3112	Basic Phonetics	3 hrs
SPA 3112L	Basic Phonetics Lab	1 hr
LIN 3716	Language Development: Birth Through 8 Years	3 hrs
SPA 3101	Physiological Bases of Speech and Hearing	3 hrs
SPA 4032	Audiology	3 hrs
SPA 4400	Language Disorders Across the Life Span	3 hrs
SPA 4476	Speech Disorders Across the Lifespan	3 hrs

Other Requirements

- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- At least 19 hours used in the minor must be earned at UCF within the department.

- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

Licensed Speech-Language Pathology and Audiology Assistant
This state license may be obtained by completing the minor plus one additional course in the disorders area as recommended by the academic advisor.

COMMUNITY ARTS—PAVE: Minor

**College of Arts and Humanities
Department of Art, VAB 117**

<http://www.art.ucf.edu/>

E-Mail: art@ucf.edu

Contact: Kevin Haran, 407-823-5203

Minor Requirements

Partners in Art in Visual Education (PAVE)

A minor in Community Arts—PAVE is offered for the student who is majoring in Art, Music, Theatre, or English (with a Creative Writing focus). Students interested in the minor should contact the department chair.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used toward the minor.

COMPUTER SCIENCE: Minor

**College of Engineering and Computer Science
School of Electrical Engineering & Computer Science,**

Harris Corp Engineering Ctr., Rm 246,

407-823-2787; Fax: 407-823-5419

<http://www.eecs.ucf.edu>

Contact: Mark Llewellyn, E-mail: markl@cs.ucf.edu

Credit Hour Requirements

Required Courses

COP 3223	Intro to Programming with C	3 hrs	19 hrs (19 hrs)
COP 3330	Intro to Object Oriented Programming	3 hrs	
COP 3502C	Computer Science I	3 hrs	
COP 3503C	Computer Science II	4 hrs	
COT 3100C	Introduction to Discrete Structure	3 hrs	
or MAD 2104	Foundations of Discrete Mathematics		
CDA 3103	Comp. Organization	3 hrs	

Other Requirements

- Not open to Computer Science or Information Technology majors.
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within Computer Science at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.

CRIMINAL JUSTICE: Minor

**College of Health and Public Affairs
Department of Criminal Justice and Legal Studies**

HPA1 311

E-mail: cjadvice@mail.ucf.edu

Contact: Dr. Mary Ann Eastep, 407-823-3598

Credit Hour Requirements

Required Courses

CCJ 3024	Criminal Justice System	3 hrs	18 hrs (6 hrs)
CCJ 3014	Crime in America	3 hrs	

Restricted Electives

Two of the following: **(12 hrs)**
C.JL 3510 Prosecution and Adjudication
C.JC 3010 The Corrections and Penology

CJE 4014 Police and Society
Six semester hours of Criminal Justice Courses (selected with the aid of an advisor).

Other Requirements

- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

DANCE: Minor

**College of Arts and Humanities
Theatre Department, UTC 180**

<http://www.theatre.ucf.edu>

Contact: Brian Vernon, 407-823-2862, E-mail: bvernon@mail.ucf.edu

Credit Hour Requirements

18 hrs

Entrance Requirement

A successful audition

Required Courses

(11 hrs)

DAN 3134	Dance History I	3 hrs
DAA 2610	Dance Improvisation/Composition I	3 hrs
DAA 2100C	Modern Dance I	2 hrs
DAA 2200C	Ballet I	2 hrs
DAA 3680	Dance Performance	1 hr

Electives

(7 hrs)

DAA 2570C	Jazz Dance I	2 hrs
DAA 2571C	Jazz Dance II	2 hrs
DAA 3502C	Jazz Dance III	2 hrs
DAA 2520C	Tap Dance I	2 hrs
DAA 2521C	Tap Dance II	2 hrs
DAA 3524C	Tap Dance III	2 hrs
DAA 2201C	Ballet II	2 hrs
DAA 3202C	Ballet III	2 hrs
DAA 2101C	Modern Dance II	2 hrs
DAA 3102C	Modern Dance III	2 hrs
DAA 2393C	World Dance	2 hrs
DAA 3645	Choreography Practicum	2 hrs
DAA 3680	Dance Performance	1 hr
TPP 2290L	Theatre Participation	1 hr

Other Requirements

- Earn a grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 14 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study credit may be used in the minor only with prior written permission.
- Participation on a minimum of one departmental dance concert.
- A minimum of 3 different dance styles must be completed in the minor.

DIGITAL MEDIA: Minor

**College of Arts and Humanities
Digital Media, 500 OTC**

<http://www.dm.ucf.edu>

E-mail: digitalmedia@dm.ucf.edu

Digital Media Head: David Vickers, 407-823-6110

Credit Hour Requirements

18 hrs

Required Courses:

12 hrs

DIG 3001	Principles of Digital Media
DIG 3135C	Digital Imagery
COP 2500C	Concepts in Computer Science
DIG 4716L	Internet Interaction

Restricted Elective Courses

6 hrs

Select two courses:

DIG 3134C	Internet Software Design
DIG 3286C	Assembling Digital Media
FIL 3625	Interactive Entertainment
DIG 4921C	Media for e-Commerce I
DIG 4641	Creative Digital Devices
DIG 4780	Modeling for Realtime Graphics
DIG 3855	Converging Media
DIG 4640	Autonomous Media
DIG 4715C	Game Engines

Minors

DIG 4713C Game Design

Other Requirements

- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- 15 hours used in the minor must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit can be used in the minor only with prior written permission.

EARLY CHILDHOOD EDUCATION: Minor PRE-KINDERGARTEN-PRIMARY (PK-3)

College of Education

Department of Child, Family and Community Sciences

ED 209, E-mail: ece@mail.ucf.edu

<http://pegasus.cc.ucf.edu/~eucecf/>

Program Coordinator: TBA, ED 206, 407-823-0045

The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student's major program. This minor is available for students in the 2003 catalog year and beyond.

Total Credit Hour Requirements

21 hrs

Required Courses

EEC 4XXX	Early Childhood Education Theory and Practice	3 hrs
RED 3310	Early Reading, Writing and Language Arts	3 hrs
EEC 4268	Curriculum Activities in Early Childhood	3 hrs
EEC 4604	Class Mgmt & Guid Yng Child	3 hrs
EEC 4207	Assessment and Evaluation of Young Children	3 hrs
EEX 4751	Parent Involvement	3 hrs

Restricted Electives (select one)

(3 hrs)

EEX 3450	Young Children with Special Needs	3 hrs
RED 3012	Foundations of Reading	3 hrs
MAE 4300	Math Curriculum and Assessment in E C	3 hrs
SCE 4304	Science Curriculum and Assessment in E C	3 hrs
RED 4311	Primary Reading, Writing and Language Arts Curriculum and Assessment	3 hrs

Other Requirements:

- Completion of all parts of the CLAST with appropriate passing scores, not alternatives, or completion of an A.A. degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule is required.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Early Childhood Education nor does it constitute admission to the College of Education.

ECONOMICS: Minor

(for both Business Majors and non-Business Majors)

College of Business Administration

Department of Economics, BA2 305, 407-823-3266

<http://www.bus.ucf.edu/economics>

Advisor: R. Pennington, BA2 303B, 407-823-2640,

E-mail: robertp@mail.ucf.edu

Credit Hour Requirements

18 hrs

Required Courses

ECO 2013	Principles of Macroeconomics	3 hrs
ECO 2023	Principles of Microeconomics	3 hrs

Select one of the following two courses:

ECO 3101	Intermediate Microeconomics	3 hrs
ECO 3203	Intermediate Macroeconomics	3 hrs

Upper Division Restricted Electives

(9 hrs)

Select from any ECO, ECP or ECS courses at the 3000 - 4000 level, excluding QMB 3201. Note: QMB 3201 is a pre-requisite for ECO 3101 and ECO 3203.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

EMERGENCY MANAGEMENT AND HOMELAND SECURITY: Minor

College of Health and Public Affairs

Department of Public Administration, HPA2 238

Contact: Robert Morin, 407-823-2604; Fax: 407-823-5651,

Email: rmorin@mail.ucf.edu

The minor in emergency management and homeland security provides students with an opportunity to comprehensively study the disaster management cycle, including emergency planning, mitigation, response and recovery. In an age of dense population, increased terrorism, unpredictable weather and high public expectations of risk reduction and public leadership, this is an exciting area of study. Students who complete a minor in emergency management and homeland security gain additional insight and knowledge that will help them find positions in various federal, state and local government or nonprofit organizations. Some of these may include the Environmental Protection Agency, Occupational Health and Safety Administration, the Orange County Emergency Management Division, the Federal Emergency Management Agency, the Department of Homeland Security and state and local Homeland Security agencies.

Credit Hour Requirements

18 hrs

Core Courses

PAD 4110	Intergovernmental Administration	3 hrs
PAD 4392	Emergency Management and Homeland Security	3 hrs
PAD 4712	Information Systems for Public Managers and Planners	3 hrs
PAD 4395	Disaster Response and Recovery	3 hrs
PAD 4390	Hazard Mitigation and Preparedness	3 hrs

Restricted Electives (select one)

(3 hrs)

CCJ 4661	Conflict & Terrorism	3 hrs
HSA 4938	Health Issues in Disasters	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- Internship or Independent Study cannot be used toward the minor.

ENGINEERING LEADERSHIP: Minor

College of Engineering and Computer Science

Department of Industrial Engineering & Management Systems, ENG2 312

<http://www.iems.ucf.edu>

The Engineering Leadership Minor provides a knowledge base in engineering leadership principles and practices as well as management techniques in a technical environment. This minor is designed to enhance the student's marketability, preparation and career viability as they enter the engineering profession.

Credit Hour Requirements 18 hrs

Admission Requirement

Acceptance to the program is from a pool of applicants each fall term for the two semester program. Admission requires an interview with the Director of this minor program, submission of the applicant's resume with academic and outside activity information, and an essay prepared by the applicant explaining their interest in the program with self development issues they would like to explore in the program.

Required Courses (18 hrs)

EGN 3613	Engineering Economy	2 hrs
EIN 3354	Principles of Cost Engineering	3 hrs
EGN 4624	Engineering Administration	3 hrs
EIN 4191C	Engineering Leadership I (Fall)	2 hrs
EIN 4192C	Engineering Leadership II (Spring)	2 hrs
	Two Engineering Design courses	6 hrs

Other Requirements

- A minimum GPA of 3.00 is required for acceptance into this minor degree program
- A cumulative GPA of 2.0 is required to successfully complete the minor.
- Students must have a Grade of "C" (2.0) or better in all courses in the minor.
- Any course substitution must be approved by IEMS Undergraduate Coordinator and/or Department Chair.
- Only open to CECS undergraduate students

ENGLISH - CREATIVE WRITING: Minor

**College of Arts and Humanities
Department of English, CNH 301**

E-mail: english@ucf.edu
Contact: T. Krise, 407-823-2212

Credit Hour Requirements 21 hrs

Required Course (3 hrs)

CRW 3013	Creative Writing for English Majors	3 hrs
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Restricted Elective Courses (6 hrs)

Select one course after completing CRW 3013

CRW 3120	Fiction Writing Workshop
CRW 3211	Creative Nonfiction Writing
CRW 3310	Poetry Writing Workshop
Select one course	
CRW 4122	Advanced Fiction Writing Workshop (PR: CRW 3120)
CRW 4224	Advanced Nonfiction Workshop (PR: CRW 3211)
CRW 4320	Advanced Poetry Writing Workshop (PR: CRW 3310)

Restricted Upper Division Electives (12 hrs)

CRW 3311	Structure of Verse
CRW 3610	Writing Scripts
CRW 4114	History of Prose Style
CRW 5932	Teaching Creative Writing and any of the above courses not already used

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LINGUISTICS: Minor

**College of Arts and Humanities
Department of English, CNH 301**

E-mail: english@ucf.edu
Contact: T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs

Required Courses (9 hrs)

LIN 3010	Introduction to Linguistics	3 hrs
LIN 4105	History of the English Language	3 hrs
LIN 4680	Modern English Grammar	3 hrs

Restricted Upper Division Electives (9 hrs)

LIN 4643	Cross Cultural Communication
LIN 4660	Linguistics and Literature
LIN 4801	Language and Meaning
LIN 5137	Linguistics
ANT 3640	Language and Culture
PHI 4400	Philosophy of Science or any course approved by the Linguistics Committee

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LITERATURE: Minor

**College of Arts and Humanities
Department of English, CNH 301**

E-mail: english@ucf.edu
Contact: T. Krise, 407-823-2212

Credit Hour Requirements 21 hrs

Required Course (3 hrs)

ENG 3014	Theories and Techniques of Lit Study (PR for all 4000 level AML, ENG, ENL, and LIT courses)
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Restricted Upper Division Electives (18 hrs)

English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department, and must be regularly scheduled, upper level courses.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - TECHNICAL WRITING & EDITING: Minor

**College of Arts and Humanities
Department of English, CNH 301**

E-mail: english@ucf.edu
Contact: T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs

Choose 18 hours from the following Required courses

ENC 3211	Theory & Practice of Tech Writing	3 hrs
	<i>or</i>	
ENC 3241	Writing for the Technical Professional	3 hrs
ENC 4215	Technical Publication and Project Management	3 hrs
ENC 4218	The Visual in Technical Communication	3 hrs
ENC 4293	Documentation and the Collaborative Process	3 hrs
ENC 4294	Documentation and Client-Based Collaboration	3 hrs
ENC 4295	Capstone Experience in Technical Writing	3 hrs

Students completing the minor may intern with a Central Florida corporation

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - WRITING: Minor

**College of Arts and Humanities
Department of English, CNH 301**

E-mail: english@ucf.edu
Contact: T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs

Restricted Elective Courses (18 hrs)

Any 3000 or 4000 level ENC or CRW classes for which the student has met the prerequisites, including

CRW 3013	Creative Writing for English Majors
CRW 3120	Fiction Writing Workshop

Minors

CRW 3211	Creative Nonfiction Writing
CRW 3310	Poetry Writing Workshop
CRW 3311	Structure of Verse
CRW 3610	Writing Scripts
CRW 4122	Advanced Fiction Writing Workshop
CRW 4123	Science Fiction Writing
CRW 4224	Advanced Nonfiction Workshop
CRW 4320	Advanced Poetry Writing Workshop
ENC 3211	Theory and Practice of Technical Writing
ENC 3241	Writing for the Technical Professional
ENC 3250	Professional Writing
ENC 3310	Magazine Writing I
ENC 3311	Advanced Expository Writing

Other Requirements

- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENTREPRENEURSHIP: Business Minor (Open to Business Students)

College of Business Administration
Management Department, BA1 309

Credit Hour Requirements

18 hrs
(15 hrs)

Required Courses

MAN 3301	Human Resource Management
MAN 4802	Entrepreneurship
MAR 3391	Professional Sales or MAR 3641 Marketing Intelligence
GEB 4111	New Venture Finance
GEB 4117	Business Plan Preparation

Restrictive Elective

(3 hrs)

Any 3000 or 4000 MAN course or BUL 4540 not in COB Common Body of Knowledge

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

ENVIRONMENTAL STUDIES: Minor

Office of Interdisciplinary Studies

<http://www.is.ucf.edu>

CL-I 302, E-mail: is@mail.ucf.edu

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The Environmental Studies minor is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

Credit Hour Requirements

21 hrs

Note: It is the student's responsibility to ensure that any prerequisite courses have been completed before enrolling in any of these courses requiring a prerequisite.

Required Course

IDS 3150	Foundations of Environmental Studies	3 hrs
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Science & Environmental Electives

(9 hrs)

BSC 1050&L	Biology and Environment + lab
BSC 2011C	Biology II

BOT 3152C	Local Flora
BOT 4156C	Florida Wildflowers
BOT 3800	Ethnobotany
BOT 4303C	Plant Kingdom
BOT 4686C	Conservation and Management of Native Plants
BOT 4713C	Plant Taxonomy
BSC 4312C	Marine Biology
OCE 3008	Oceanography
PCB 3044&L	Principles of Ecology and Lab
PCB 3442	Florida Aquatic Ecology
PCB 4302C	Physiochemical Limnology
PCB 4303C	Biological Limnology
PCB 4683	Population Biology and Evolution
CHM 3120	Analytical Chemistry
HSC 4500	Epidemiology
ENV 3001	Introduction to Environmental Engineering
ENV 4341	Solid Waste Management
PCB 3063	Genetics
PCB 3304C	River Ecology
PCB 3314	Marine Biodiversity

Social & Humanities Electives

(9 hrs)

ECP 3302	Economics and the Environment or
ECP 4302	Economics of the Environment
ECO 4701	The Global Economy
INR 4351	International Environmental Law
PUP 3203	Environmental Politics
PUP 4503	Government and Science
PAD 4351	Issues in Environmental Program Management
PAD 3330	Urban and Regional Planning
PLA 4631	Land Use and Environmental Law
PUP 4204	Sustainability
GEO 2370	Resources Geography
GIS 3043C	GIS for Environmental Studies
GIS 4301C	Advanced GIS Applications in Environmental Studies
GIS 4035C	Remote Sensing of the Environment
PHI 3033	Philosophy, Religion, and the Environment
PHI 4400	Philosophy of Science
PHI 3640	Environmental Ethics
PHI 4633	Ethics and Biological Science
PHM 4031	Environmental Philosophy

Other Requirements

- A grade of "C" or above (2.0) is required in each course used to satisfy the minor.
- 18 hours must be taken at the upper division.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study require prior approval from the Interdisciplinary Studies advisors to be used toward the minor.
- Internship, independent study, and co-op credit cannot be used in this minor.

EUROPEAN STUDIES: Minor

College of Sciences

Department of Political Science, CNH 415

<http://www.cos.ucf.edu/politicalscience>

E-mail: politics@mail.ucf.edu

Contact: Kerstin Hamann, 407-823-2608

An interdisciplinary minor that offers students a general background of the politics, history, literature, art, and culture of Europe with an emphasis on the post-World War II period. Courses are to be selected in consultation with a departmental advisor or the director of European Studies.

Credit hour requirements:

21 hrs

Students are responsible for meeting any prerequisites for the courses in the minor.

Required core courses:

(6 hrs)

CPO 4101	Politics of the European Union
LIT 3082	Continental European Fiction since 1900

Restricted Electives:

(12 hrs)

Literature, Film, and Culture:

(3 hrs)

ENL 2022	English Literature II
ENL 4101	English Novel
ENL 4240	English Romantic Writers
ENL 4262	19 th Century British Prose
ENL 4273	Modern British Literature
FIL 3520	Italian Film
FIL 3521	French Film

FIL 3522	German Film
FRE 4500	French Civilization and Culture
FRW 4281	20th Century French Novels
FRW 4324	20th Century French Drama
FRW 4532	French Romanticism
FRW 4552	Nineteenth Century French Literature
GER 3102	Germany - Past to Present
GER 4520	Modern Germany
GEW 3101	Survey of German Literature II
GEW 3370	German Short Story
GEW 3480	German Post-War Literature
GEW 4482	German Children's Literature
GEW 4531	The Age of Goethe and Schiller
ITT 4956	Study Abroad: Italian Civilization
ITW 3101	Survey of Italian Literature II
JST 3751	Literature of the Holocaust
LIT 4184	Irish Literature
MUL 3604	German Song Literature
MUL 3605	French Song Literature
SPW 3101	Survey of Spanish Literature II
SPW 3370	Spanish Short Story
SPW 4272	20th Century Spanish Novel
SPW 4322	Contemporary Iberian Theatre
SPW 4450	Spanish Literary Theory
SPW 4460	Nineteenth Century Spanish Literature
SPW 4720	The Generation of 1898

History

EUH 3235	Romanticism and Realism	(6 hrs)
EUH 3242	Modern Europe and the First World War	
EUH 3281	Second World War and Rebirth of Europe	
EUH 3315	History of Modern Spain	
EUH 3411	Ancient Rome	
EUH 3431	History of Modern Italy	
EUH 3451	History of Modern France	
EUH 4284	Fascism and the Totalitarian Dictatorships	
EUH 4400	The History of Ancient Greece	
EUH 4465	Hitler's Third Reich	
EUH 4501	English History: 1485-1815	
EUH 4502	English History: 1815-Present	
EUH 4574	History of Russia: 1801-1917	
EUH 4576	History of Russia in the 20 th Century	
EUH 4582	20 th Century Russian Diplomatic History	
EUH 4610	Women in European Society	
EUH 4620	European Great Powers: 1815-1914	
GER 4510	Life and Culture in Nazi Germany	
JST 3701	History of the Holocaust	

Political Science or Economics

CPO 3104	Politics of Western Europe	(3 hrs)
CPO 3614	Politics of Eastern Europe	
CPO 4074	Political Economy	
CPO 4123	Government and Politics of Great Britain	
CPO 4445	Comparative Political Parties	
CPO 4643	Government and Politics of Russia	
ECO 3703	International Trade	
ECS 4303	Economics of European Integration	
INR 4035	International Political Economy	

Other:

may be taken from any of the above electives; Foreign Language Across the Curriculum (FLAC) courses linked to any of the above electives, or

ARH 4430	19th Century Art	(3 Hrs)
ARH 4450	20th Century Art	
PHH 3510	Marx and Nietzsche	
PHP 3783	Modernity as a Philosophical Problem	
PHP 3786	Existentialism	
PHP 4782	Phenomenology	

Any course substitutions are subject to prior approval by the director.

Foreign Language Requirement:

Two years (four semesters) or equivalent proficiency exam in French, German, Greek, Italian, Portuguese, or Spanish (other languages require approval of director).

Other Requirements

- A grade of "C" (2.0) or better is required for all courses counting towards the minor.
- A maximum of 6 hours of Study Abroad credit in equivalent courses can be used, with no more than 3 credits in one area.
- At least 18 hours must be taken at UCF.
- No credit by exam (military credit, TSD) may be used.
- Courses offered by the Modern Languages Department might be offered in a language other than English.

- At least 15 credits must be upper division.
- No more than 6 credit hours (separate from the foreign language requirement) may be used toward the European Studies minor and also used toward any other major or minor.

EXCEPTIONAL EDUCATION: Minor

College of Education

Department of Child, Family, and Community Sciences ED 209

<http://www.education.ucf.edu>

Program Coordinator: Dr. Maria Blanes, ED 315-N, 407-823-5445, E-mail: mblanes@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor will strengthen the marketability of the student's major program. This minor is available for students in the 2001 catalog year and beyond.

Credit Hour Requirements

Required Courses **21 hrs (18 hrs)**

RED 3012	Basic Foundations of Reading	3 hrs
EEX 4003	Teaching Exceptional Students	3 hrs
EEX 4601	Introduction to Behavior Management	3 hrs
EEX 4XXX	Tech for Classroom Teachers of Students with Spec Needs	3 hrs
EDF 4603	Analysis of Critical Issues in Education	3 hrs
EEX 3243	Techniques for Exceptional Adolescents/ Adults	3 hrs
EEX 3241	or Methods for Academic Skills for Except Students	

Restricted Electives (select one)

EEX 4066	Curriculum, Theory & Instruct Strategies for Students with Special Needs or	(3 hrs)
EDF 4467	Learning Theory & Assessment	3 hrs

Other Requirements

- Completion of all parts of the CLAST with appropriate passing scores (no alternatives or waivers), or completion of an AA degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule classes including ENC 1101, 1102, and two college level math courses, MAC 1105 or higher, is required.
- No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Exceptional Education nor does it constitute admission in the College of Education.

FILM - CINEMA STUDIES: Minor

College of Arts and Humanities

Film, COMM 121, 407-823-4285

<http://www.film.ucf.edu>

E-mail: film@ucf.edu

Division Head: S. Schlow, 407-823-2845

Entrance Requirement

- Completion of a Minor Declaration and Minor Application

Credit Hour Requirements

Required Courses **18 hrs (12 hrs)**

FIL 1007	Foundations of Story or	3 hrs
FIL 1000	Cinema Survey	
FIL 2400	History of Motion Pictures	3 hrs
FIL 3006	Art of the Cinema	3 hrs
FIL 2423	Foundations of Production	3 hrs

Restricted Electives (Choose Two)

FIL 3309	Women in Film	(6 hrs)
FIL 3520	Italian Film	
FIL 3521	French Film	
FIL 3522	German Film	
FIL 3412	Black Cinema	

Other Requirements

Minors

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

FINANCE: Minor

Open to Business and Non-Business Students

Not available to Finance Majors

College of Business Administration

Department of Finance, BA 409

<http://www.bus.ucf.edu/finance>

Credit Hour Requirements

19 hrs

Prerequisite courses:

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics

Required courses

10 hrs

FIN 2104	Personal Finance and Investments	3 hrs
FIN 3403	Business Finance	4 hrs
FIN 3303	Financial Markets	3 hrs

Electives (select three of the following)

9 hrs

FIN 3414	Intermediate Corporate Finance	3 hrs
FIN 3470	Financial Statement Analysis	3 hrs
FIN 3504	Investment Analysis	3 hrs
FIN 4313	Management of Financial Institutions	3 hrs
FIN 4324	Commercial Bank Management	3 hrs
FIN 4424	Advanced Topics in Financial Management	3 hrs
FIN 4453	Financial Models	3 hrs
FIN 4514	Portfolio Analysis and Management	3 hrs
FIN 4533	Financial Derivatives	3 hrs
FIN 4604	International Financial Management	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

FITNESS TRAINING: Minor

College of Education

Department of Teaching and Learning Principles,
ED 209

<http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm>

Program Coordinator: Dr. Patricia Higginbotham, ED 320 H,
407-823-2050, Email: higginbp@mail.ucf.edu

The Fitness Training minor is developed to provide the student interested in working in wellness centers as personal trainers the knowledge and experience to be successful in this growing and exciting area. The goal is to provide guided practical skills application to those students who wish to teach fitness related concepts to individuals and/or groups.

With the knowledge acquired from the completion of the required coursework for the Fitness Training Minor, students will be prepared and eligible to receive certification from The American Council on Exercise. This Minor is available for students in the 2001 Catalog Year and beyond.

Credit Hour Requirements

*19 hrs

Required Courses

*PEM 2171	Aerobics	2 hrs
*PET 2622C	Human Injuries	3 hrs
PET 4312	Biomechanics	3 hrs
PET 4550	Fitness Assessment and Exercise	3 hrs
PET 4083C	Practical Fitness Training (Only offered once a year)	4 hrs
*ZOO 3736C	Exercise Physiology Anatomy	4 hrs

*If the student has completed a Human Anatomy course with a laboratory requirement at another school, it can be substituted for ZOO3736C. This is also true for the Human Injuries course, PET2622C and the PEM 2171 Aerobics course. Both of these courses are often completed at a community college.

Note: ZOO 3736C should be taken prior to PET 4312, PET 4550, and PET 4083C

Other Requirements

- No grades below "C-" (1.75) and no "S" grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

FRENCH: Minor

College of Arts and Humanities

Modern Languages and Literatures, CNH 523

<http://www.cas.ucf.edu/forlang>

E-mail: Modernlanguage@ucf.edu

Contact: P. Giordano, 407-823-2472

Credit Hour Requirements

18 hrs

Restricted Electives

- Select six upper division courses in French, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

GERMAN: Minor

College of Arts and Humanities

Modern Languages and Literatures, CNH 523

<http://www.cas.ucf.edu/forlang>

E-mail: Modernlanguage@ucf.edu

Contact: P. Giordano, 407-823-2472

Credit Hour Requirements

18 hrs

Restricted Electives

- Select six upper division courses in German, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

HEALTH INFORMATION MANAGEMENT: Minor

College of Health and Public Affairs

Department of Health Professions, HPA2 210

Contact: Alice M. Noblin, 407-823-2353, Email: anoblin@mail.ucf.edu

Credit Hour Requirements **20 hrs**
Required Courses **(20 hrs)**

HIM 3006	Foundations of Health Information Management	3 hrs
HIM 4506C	Quality Management	3 hrs
HIM 4656C	Health Information Management Systems	3 hrs
HSC 3531	Medical Terminology	3 hrs
HIM 4226C	Coding Procedures I	5 hrs
HIM 4256C	Coding Procedures II	3 hrs

Other Requirements

- A minimum overall GPA of 2.5 is required. A minimum grade of "C" (2.0) is required in each course for the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by examination (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental approval.

HEALTH SCIENCES: Minor

College of Health and Public Affairs

Department of Health Professions, HPA2 212

Contact: L. Timothy Worrell, 407-823-2214,

E-mail: worrell@mail.ucf.edu

Credit Hour Requirements **18 hrs**
Required Courses **(9 hrs)**

HSA 3111	U.S. Health Care Systems	3 hrs
HUN 2002	Modern Concepts of Nutrition	3 hrs
HSC 3110C	Medical Self Assessment	3 hrs

Restricted Upper Division Electives **(9 hrs)**

9 additional hours of upper division courses in the Health Professions department.

Other Requirements

- Majors may not count courses presently required in a department program.
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of "C" (2.0) is required in all Health Professions courses.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

HEALTH SERVICES ADMINISTRATION: Minor

College of Health and Public Affairs

Department of Health Professions, HPA2 210

Contact: Kendall Cortelyou-Ward, 407-823-2359,

Email: kcortely@mail.ucf.edu

Credit Hour Requirements **18 hrs**
Required Courses **(15 hrs)**

HSA 3111	U.S. Health Care Systems	3 hrs
HSA 4201	Community Health Services	3 hrs
HSA 4180	Org and Mngmnt for Health Agencies	3 hrs
HSA 4191	Health Care Automation	3 hrs
HSC 4500	Epidemiology	3 hrs

Restricted Elective **(3 hrs)**

HSC 3640	Health Law or
HSC 4653	Health Care Ethics or
HSA 4109	Managed Care or
HSA 4502	Risk Management or HIM 4506C Quality Management
HSA 4702	Health Science Research Methods

(Additional prerequisite courses may be required)

Other Requirements

- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of "C" (2.0) is required in all courses for the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.

- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

HISTORY: Minor

College of Arts and Humanities

Department of History, CNH 551

<http://pegasus.cc.ucf.edu/~history>

E-mail: history@ucf.edu

Contact: Edmund F. Kallina, 407-823-2224

Credit Hour Requirements **18 hrs**
Restricted Upper Division Electives **(15 hrs)**

History Elective **(3 hrs)**

Any course taught within the History Department

Other Requirements

- A grade of C- (1.75) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used without academic advisor's approval.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental approval.

HOSPITALITY MANAGEMENT: Minor

Rosen College of Hospitality Management

9907 Universal Boulevard

Orlando, Florida 32819

407-903-8000

<http://www.hospitality.ucf.edu>

E-mail: hospitality@mail.ucf.edu

Dean: Abraham Pizam

Credit Hour Requirements **18 hrs**
Required Courses **(6 hrs)**

HFT 1000	Introduction to Hospitality Mgmt	3 hrs
HFT 3540	Guest Services Management I	3 hrs

Choose any two courses from the following: **(6 hrs)**

HFT 2403	Hospitality Financial Accounting	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 2500	Hospitality Marketing	3 hrs
HFT 2220	Hospitality Human Resource Mgmt	3 hrs
HFT 3444	Hospitality Information Systems	3 hrs
HFT 3600	Legal Environment in Hospitality	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 4286	Hospitality Communications	3 hrs

Choose any two courses from the following: **(6 hrs)**

HFT 3700	Tourism Management	3 hrs
HFT 3263	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park & Attraction Mgmt	3 hrs
HFT 2750	The Event Industry	3 hrs
FSS 2221C	Quantity Food Preparation	3 hrs
HFT 2254	Lodging Operations	3 hrs

Other Requirements

- A minimum GPA of 2.0 in all courses used to satisfy the minor.
- At least 12 credit hours used in the minor must be earned at UCF within the College.
- No credit by exam (TSD, Military credit) may be used in the minor.
- It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student's responsibility for dropping courses they do not intend to complete.
- Final exams will be given during Final Exam Week only.
- Internship or Independent Study credit cannot be used toward the minor.

Minors

HUMANITIES: Minor

College of Arts and Humanities
Department of Philosophy, CNH 411
<http://www.cas.ucf.edu/philosophy>

E-mail: philosophy@ucf.edu

Contact: Bruce Janz, 407-823-2273

A multicultural minor focusing on the art, literature, philosophy, and religion of various world cultures. This minor is intended to provide a limited, yet substantive, introduction to humanities themes related to knowledge, responsibility, and society. Students interested in the Liberal Arts major may find this minor particularly helpful. In consultation with a departmental advisor, student will select courses in accordance with the distributions listed below.

Credit Hour Requirements

Humanities Foundations

21 hrs

6 hrs

Select two courses:

HUM 3431	Ancient Humanities
HUM 3435	Medieval Humanities
HUM 3255	Modern Humanities
HUM 3252	Contemporary Humanities

Humanistic/Religious Traditions

6 hrs

Select two courses:

HUM 3401	Asian Humanities
HUM 3417	Hindu Thought and Culture
HUM 3419	Islamic Thought and Culture
HUM 3552	Christian Thought
HUM 3553	Moses, Jesus and Muhammad
ANT 3245	Native American Religions
PHH 3701	Native American Philosophy
JST 3401	The Jewish People I

Applications

6 hrs

Select two courses:

PHI 3803	Philosophy and Creativity
PHI 3033	Philosophy, Religion, and the Environment
PHM 3123	Feminist Theories
REL 3115	Religion, Spirituality, and Popular Music
REL 3111	Religion and Philosophy through Film
HUM 4554	Religious Quest and the Human Dilemma
HUM 4330	Performance Theory
PHI 3022	Sexuality, Gender &Philosophy
PHI 3638	Ethical Issues in the 21st Century
PHI 4321	Philosophies of Embodiment: Mind/Body/Self

Upper Division Restricted Elective

3 hrs

Select one additional course from the above list or from the following:

HUM 3320	Contemporary Multicultural Studies
HUM 4301	Classical Ideal
HUM 4303	Spiritual Ideal
PHI 4804	Critical Theory
PHI 3800	Aesthetics
PHI 3700	Philosophy of Religion
CLA 3850	Classical Mythology
CLA 3851	Comparative Mythology

Other Requirements

- A "C" (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

INFORMATION TECHNOLOGY: Minor

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr, Rm 246
<http://www.eecs.ucf.edu>

Contact: Mark Llewellyn, E-mail: Mark@cs.ucf.edu

Credit Hour Requirements

18-19 hours

Required Courses

(3-7 hrs)

Select one of the following options:

Option 1 (Not open to Computer Science Minors or Interdisciplinary Studies Majors):

CGS 1060C	or CGS 2100CC	3 hrs
COP 2500C	Concepts in Computer Science	4 hrs

Option 2 (Not open to Computer Science Minors or Interdisciplinary Studies Majors):

COP 3223	Intro to Programming with C	3 hrs
COP 3502C	Computer Science I	3 hrs

Option 3 (Computer Science Minors and Interdisciplinary Studies Majors Only):

CGS 1060C	or CGS 2100C	3 hrs
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Restricted Electives

(9 hrs)

Select from the following:

CGS 3346C	Unix Operating Systems	3 hrs
CGS 2545C	Database Concepts	3 hrs
CGS 2585C	Desktop/Internet Publishing	3 hrs
CGS 3175	Internet Applications	3 hrs
CGS 3269	Computer Architecture Concepts	3 hrs
CGS 3285	Computer Networks Concepts	3 hrs
CGS 3763	Operating Systems Concepts	3 hrs

College Electives

(3-6 hrs)

Options 1 and 2	3 hrs
Options 3	6 hrs

Any upper division courses offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internship, and those courses listed under Required Courses). See other requirements.

Other Requirements

- Not open to Information Technology majors.
- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within the Computer Science program at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
- The courses used to satisfy the college electives for this minor cannot also be used to satisfy the requirements for a Computer Science Minor.

INTELLIGENT ROBOTIC SYSTEMS (IRS): INTERDISCIPLINARY Minor

College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107

<http://www.cecs.ucf.edu>

Contact: Paul Edlen, 407-823-2455, E-mail: paule@mail.ucf.edu

Credit Hour Requirements

18 hrs

Required Courses

EGN 3060C Introduction to Robotics 3 hrs

Select two courses from the following five courses:

Control Systems		
EEL 3657	Linear Control Systems	3 hrs
EML 4312C	Feedback Control	3 hrs
Manipulation and Rigid Body Motion		
EGN 3321	Engineering Analysis – Dynamics	3 hrs
EML 3262	Kinematics of Mechanism	3 hrs
Computer Vision and Intelligent Systems		
CAP 4453	Robot Vision	3 hrs

If a student chooses to take a third course, it will be counted as an elective.

Elective Courses

(9 hrs)

Select any three elective courses from the following courses:

Path Planning, Autonomous Systems, Controls, Signal/Image Processing

EEL 4664	Autonomous Robotic Systems	3 hrs
EEL 4612	Intro to Modern and Robust Ctrl	3 hrs
EEL 4750	Digital Signal Proc Fund	3 hrs
EEL 5173	Linear Systems Theory	3 hrs
EEL 5513	DSP Applications	3 hrs
EEL 5630	Digital Control Systems	3 hrs
EEL 5820	Image Processing	3 hrs
EEL 5825	Pattern Recognition	3 hrs
EML 5311	System Control	3 hrs

Computer Vision and Intelligent Systems

CAP 5415	Computer Vision	3 hrs
CAP 5512	Evolutionary Computation	3 hrs
CAP 5610	Machine Learning	3 hrs

Mechatronics and MEMS

EML 3804	Digital Control in Mechatronics	3 hrs
EEL 5625	Applied Control Systems	3 hrs
EML 5290	Intro to MEMS & Micromachining	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Students whose major requires senior design courses are encouraged to take the multidisciplinary senior design course (EGN 4412C and EGN 4413C) and to undertake a project in intelligent robotic systems.

- A high-level programming language class (EGN 3211 or COP 3223 or equivalent) is required for the minor.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

INTERDISCIPLINARY INFORMATICS TECHNOLOGY (I²Tech): Minor

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
<http://www.eecs.ucf.edu>

Contact: Dr. Piotr Windyga, 407-823-3467,
 E-mail: pwindyga@cs.ucf.edu

Credit Hour Requirements **18 hrs**

Required Courses **(6 hrs)**

CET 3010	Introduction to Information Technology	3 hrs
or CGS 1060C	Introduction to Computer Science	
or CGS 2100C	Computer Fundamentals for Business	
or COP 3502C	Introduction to Computer Science I	
CGS 3175	Internet Applications	3 hrs

Healthcare Concentration **(9 hrs)**

HIM 3006	Introduction to Health Information Management	3 hrs
CGS 4144	Introduction to Informatics	3 hrs
HSA 4191	Health Care Automation	3 hrs

Technical Elective **(3 hrs)**

Students should consult with the program coordinator for a list of the approved technical electives.

Other Requirements

- A minimum cumulative GPA of 2.5 is required in the minor/certification.
- Pre-requisites to the minor include basic computer skills.
- No credit by exam (TSD, Military credit) may be used.

INTERNATIONAL AND GLOBAL STUDIES: MINOR

College of Sciences
Department of Political Science, CNN 415
<http://www.cos.ucf.edu/politicalscience>

E-mail: politics@ucf.edu
 Contact: Waltraud Morales, 407-823-2608

Students taking the International and Global Studies Minor will examine the interactions between nations and the political processes within nations using a variety of perspectives. International aspects focus on how countries interact with one another, and how the social and cultural systems within them affect these interactions. Global studies looks at intra-national factors, such as how a state's internal characteristics impact that state's political processes. Immigration, technological advancements and internationalization of foreign policy make global studies a complementary approach to international studies.

Credit Hour Requirements **21-32 hrs**

Note: It is the student's responsibility to satisfy course prerequisites.

Core Courses **(6 hrs)**

IDS 4315	Global Perspectives	
GEO 3471	World Political Geography	

Restricted Political Science Electives (Select one) **(3 hrs)**

INR 4030	Diplomacy	
INR 4076	Global Drug Policy	
INR 4075	Human Rights Policy	
INR 4011	Politics of Globalization	
INR 4054	Global Politics of Energy	
INR 4714	Politics of International Trade Policy	
INR 4035	International Political Economy	
INR 4603	International Relations Theory	
INR 4350	Global Environmental Politics	
INR 4502	International Organizations	

Restricted Area Studies Electives **(6 hrs)**

Two upper division courses from one of the following area studies programs.

Asian Studies, European Studies, Latin American, Caribbean and Latino Studies, Middle Eastern Studies

Courses may not have a prefix of INR, CPO, POT, POS or PUP.

Restrictive Electives **(3 hrs)**

CCJ 4661	Terrorism
EUH 3651	War and Society
MMC 4300	International Media
CPO 3103	Comparative Politics
CPO 4062	Comparative Judicial Process
CPO 4074	Political Economy
CPO 4754	Comparative Political Institutions
CPO 4710	Women in Comparative Politics
CPO 4784	Political & Economic Inequality in Comparative Perspective
CPO 4445	Comparative Political Parties
SYP 4454	Sociology of the Global System
THE 3312	Theatre History and Dramatic Lit II

3-one credit Foreign Language across the Curriculum (FLAC) courses
 Substitutions require prior approval by the program advisor

Language Requirement **(0-14 hrs)**

Proficiency equivalent to four semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

INTERNATIONAL BUSINESS:

Minor for Business Majors
College of Business Administration
Office of Student Support, BA 240

Contact: Richard Ajayi, 407-823-5908

Credit Hour Requirements **18 hrs**

Required Courses **(12 hrs)**

ECO 3703	International Trade or	3 hrs
ECO 4XXX	International Macroeconomics	3 hrs
FIN 4604	International Financial Management	3 hrs
MAN 4600	International Management or	3 hrs
MAR4156	International Marketing	3 hrs

Elective **(6 hrs)**

ECO 3703	International Trade
ECO 4XXX	International Macroeconomics
ECO 4701	Seminar in Global Economic Policy
ECS 4013	Economics of Developing Areas
GEO 3471	World Political Geography
INR4035	International Political Economy
INR 4224	Contemporary International Politics of Asia
INR 4243	International Politics of Latin America
INR 4401	International Law I
MAR 4724	Strategic Foundations in Global e-Business
	Special Topics Seminars in International Business;
	GEB Study Abroad, 3000/4000 level foreign language course.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
- A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

Minors

INTERPERSONAL COMMUNICATION: Minor

College of Sciences
Nicholson School of Communication
COM 238, 407-823-2681
<http://communication.cos.ucf.edu>
E-mail: communication@ucf.edu
Contact: Susan Jefferson

Not open to Ad/PR, Interpersonal/Organizational Communication, Journalism, or Radio/TV majors.

Credit Hour Requirements 21 hrs
Required Courses (6 hrs)

COM 3311 Communication Research Methods
SPC 3301 Interpersonal Communication

Restricted Electives (15 hrs)

COM 3011C Communication and Human Relations
SPC 4331 Nonverbal Communication
SPC 4540 Attitudes and Communication
SPC 4426 Group Dynamics
COM 4461 Intercultural Communication
COM 4462 Conflict Management

Independent study or Special topics course if approved by the coordinator prior to enrolling in the class

Other Requirements

- A minimum average GPA of 2.0 is required in courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used toward the minor with prior approval.

ITALIAN: Minor

College of Arts and Humanities
Modern Languages and Literatures, CNH 523
<http://www.cas.ucf.edu/forlang/>
E-mail: Modernlanguage@ucf.edu
Contact: P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs
Restricted Electives

- Select 6 upper division courses in Italian, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

JUDAIC STUDIES: Minor

College of Arts and Humanities
Judaic Studies Program, CNH 201
http://www.cas.ucf.edu/judaic_studies
E-mail: judaicst@ucf.edu
Contact: Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Interdisciplinary Studies and Women's Studies Programs. Students who desire to minor in Judaic Studies should take the required Hebrew courses (8 hours) (or proficiency) and 18 hours in the Judaic Studies courses listed below. Interested students are encouraged to meet with the program director. For Certificate requirements, refer to the section on Judaic Studies Certificate.

Credit Hour Requirements 18 hrs plus Hebrew (8 hrs)
Required Courses (or proficiency) in Hebrew (0-8 hrs)

HBR 1120 Elementary Modern Hebrew Lang and Cult I
HBR 1121 Elementary Modern Hebrew Lang and Cult II

Upper Division Courses (18 hrs)

Jewish History
JST 3401 The Jewish People I
JST 3402 The Jewish People II
JST 3550 Introduction of Modernism into Judaism
JST 3701 History of the Holocaust

Bible

JST 3120 Jewish Scriptures
JST 3125 The Book of Job
JST 3126 Romantic Love in the Bible
JST 3144 Dead Sea Scrolls

Literature

JST 3100 The Hebrew Creative Mind
JST 3751 Literature of the Holocaust

Culture

JST 3450 Modern Jewish Experience
JST 3820 Modern Hebrew Culture
JST 3810 The Jewish National Movement

Language

HBR 2200 Intermediate Modern Hebrew Language and Culture I
HBR 2201 Intermediate Modern Hebrew Language and Culture II
HBR 3410 Conversational Israeli Hebrew
Other courses, including special topics, with the approval of the Director

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

LATIN AMERICA AREA STUDIES: Minor

College of Arts and Humanities
CNH 201M, 407-823-1173 or 1174

Program Director: Dr. José M. Maunez-Cuadra,
E-mail: jmaunez@pegasus.cc.ucf.edu

The minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand, Latin America, its people and its culture. Students completing the minor shall be prepared to apply their knowledge about Latin America in a variety of careers including, but not limited to: education, government, journalism, foreign service, social and community service, international trade and public relations.

Credit Hour Requirements 18 hrs
Admission Requirement

Admission by interview with the Program Director.

Required Skills

Successful completion of SPN 1120 and SPN 1121 or demonstration of proficiency.

Restricted Electives (18 hrs)

At least 6 hours must be from one disciplinary group, and at least 3 hours from two additional groups. The other 12 must be selected from any of the disciplinary groups. Additional courses not listed below may substitute with prior approval from the Program Director.

Anthropology:

ANT 3164 Ancient Incas
ANT 3168 Maya Archaeology
ANT 3332A0 People and Cultures of Latin America
ANT 4340 Caribbean Cultures
ANT 4308A0 Gender Issues in Latin America
ANT 3168 Maya Archeology

Art History:

ARH 4655 Meso American Art
ARH 3673 Modern Art of Mexico
ARH 3670 20th Century Latin American Art

Modern Languages and Literature:

SPN 2200 Intermediate Spanish Language & Civilization
FRW 3770 Francophone Literature
SPW 3130 Survey of Latin American Literature I
SPW 3131 Survey of Latin American Literature II
LIT 3192 Caribbean Literature
FRW 3752 French Caribbean Literature
SPW 4382 Literature of Central America
AML 3615 Harlem, Haiti, and Havana

AML 4630	Latino/Latina Literature
SPN 3852	Bilinguismo
SPW 4730	Hispanic Literature of the United States
SPN 4780	Spanish Phonetics

History:

LAH 3130A0	Latin American History I
LAH 3200	Latin American History II
LAH 3400A0	History of Mexico and Central America
LAH 3470	History of the Caribbean
AMH 3586	History of the Hispanic minorities in the US

Latin American Studies:

LAS 4906	Independent Study in Latin American, Caribbean and Latino Studies
LAS 4023	African Caribbean Experience

Political Science:

CPO 4303	Comparative Latin American Politics
INR 4243	International Politics of Latin America
CPO 5334	Contemporary Politics in the Maya Region

Required Written Project (0 hrs)

In consultation with the Program Director, a major written paper on some aspect of Latin America, the Caribbean or Latino Studies must be completed and approved before graduation.

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior permission from the Program Director.

LEGAL STUDIES: Minor

**College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HPA 311**

Contact: David B. Slaughter, 407-823-2603,
E-mail: dslaughter@mail.ucf.edu

**Credit Hour Requirements 21hrs
Required Courses (3 hrs)**

PLA 3013	Law and the Legal System
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Restricted Upper Division Electives (15 hrs)
15 semester hours of legal studies courses selected with the aid of an advisor.

Restricted Electives (3 hrs)
3 semester hours of law-related courses selected with the aid of an advisor.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MAGAZINE JOURNALISM: Minor

**College of Sciences
Nicholson School of Communication, COM 244**

<http://communication.cos.ucf.edu>

E-mail: journalism@ucf.edu

Contact: Fred Fedler, 407-823-2839

Prerequisites

- Grammar proficiency requirement
- A minimum UCF GPA of 3.3
- Not open to Ad/PR, Journalism, or Radio/TV majors.

**Credit Hour Requirements 18 hrs
Required courses (9 hrs)**

JOU 2100C	News Reporting
JOU 3510	Magazine Publishing
JOU 4224	Magazine Editing and Production

Restricted Upper Division Electives (9 hrs)

ENC 3310	Magazine Writing I
JOU 3201	Editing I
JOU 3202	Editing II
JOU 4300	Feature Writing
JOU 4308	Freelance Writing
JOU 4340C	On-line Journalism

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

MANAGEMENT INFORMATION SYSTEMS: Minor

**(For both Business and Non-Business Majors)
College of Business Administration
Department of MIS, BA 325, 407-823-3173**

Credit Hour Requirements 21 hrs

Prerequisite courses

CGS 2100CC	Computer Fundamentals for Business <i>or</i>
CGS 1060C	Intro to Computer Science (or equivalent)
MAC 1105	College Algebra <i>or</i>
MGF 1106	Finite Mathematics

Required Courses 12 hrs

ISM 3011	Management Information Systems	4 hrs
ISM 3253	MIS Techniques	4 hrs
ISM 4212C	Database Management	4 hrs

Electives (choose three) 9 hrs

Any 4000 or 5000 Level ISM course from those listed below or others with the permission of the MIS Department Chair:

ISM 4113	Information Systems Analysis and Design
ISM 4130	Information Systems Implementation
ISM 4220	Distributed Information Systems
ISM 4300	Technology Management
ISM 4480	Electronic Commerce Systems
ISM 4932	Special Topic Course
ISM 5315	Information Systems Project Management
ISM 5219	Business Intelligence Systems

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

MARKETING: Minor

**(Open to Business and Non-Business Students)
College of Business Administration
Department of Marketing, BA2 307S**

**Credit Hour Requirements 19 hrs
Required Courses (4 hrs)**

MAR 3023	Marketing	4 hrs
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Restricted Electives (12-15 hrs)

Select four or five:		
MAR 3323	Integrated Marketing Communication	
MAR 3391	Professional Selling	
MAR 3403	Sales Force Management	

Minors

MAR 3503	Customer Behavior
MAR 3613	Marketing Analysis and Research
MAR 3641	Marketing Intelligence
MAR 3880	e-Marketing
MAR 4156	International Marketing or
MAR 4724	Strategic Foundations in Global e-Business
MAR 4231	Retailing Management
MAR 4711	Sport Marketing
MAR 4712	Healthcare Marketing
MAR 4715	Entertainment Marketing
*MAR 4803	Marketing Management
*MAR 4804	Marketing Strategy
MAR 4841	Services Marketing

*Requires prerequisites in addition to MAR 3023

Restricted Non-Marketing Elective (0-3 hrs)

Three hours of coursework may be chosen outside of marketing from the list below. However, other courses outside Marketing will also be considered—approval by petition to the Department.

ADV 3008, ANT 3640, COM 3011C, COM 3311, COM 3120, COM 3110, ENC 3211, EXP 3404, HSA 3111, PHI 3803, PPE 3003, PSY 3213C, RTV 3007, SOP 3004, SPC 3301, SPC 4331, SPC 4426, STA 4102, SYA 4300C, MAN 4720.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) or “S” grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

MASS COMMUNICATION: Minor

College of Sciences

Nicholson School of Communication

COM 238, 407-823-2681

<http://communication.cos.ucf.edu>

E-mail: communication@ucf.edu

Contact: M. A. Shaver, 407-823-2681; S. Jefferson, 407-823-3978

Not open to Ad/PR, Interpersonal/Organizational Communication, Journalism, or Radio/TV majors.

Credit Hour Requirements

18 hrs

Restricted Electives

(18 hrs)

Select from the following:

MMC 2004	Mass Media
ADV 3008	Principles of Advertising
COM 3330	Computer Mediated Communication
FIL 2400	History of Motion Pictures
FIL 3006	Art of the Cinema
FIL 3410	History of Animated Films I
JOU 3004	History of American Journalism
MMC 3420	Mass Media Research Methods
MMC 3200	Mass Communication Law
MMC 4300	International Media
PUR 4000	Public Relations
RTV 3007	Dev & Struct of Elect Media & New Tech
RTV 3200	Prod Fund & Aesth of Elect Media
RTV 4403	Electronic Media, Technology and Society

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

MATHEMATICS: Minor

College of Sciences

Department of Mathematics, MAP 207

<http://math.ucf.edu>

E-mail: math@mail.ucf.edu

Contact: H. Martin, MAP 215A, 407-823-5700,

E-mail: martin@math.ucf.edu

Credit Hour Requirements

21 hrs

Required Courses

(15 hrs)

MAC 2311	Calculus with Analytic Geo I	4 hrs
MAC 2312	Calculus with Analytic Geo II	4 hrs
MAC 2313	Calculus with Analytic Geo III	4 hrs
MAP 2302	Differential Equations	3 hrs

(MAC 2311 and MAC 2312 may be waived by the Department Standards Committee for a student with adequate high school preparation in calculus. The student would increase Restricted Electives' hours accordingly to earn the hours required in the minor)

Restricted Electives

(6 hrs)

The Restricted Electives must be taken from the Department of Mathematics at UCF and must include one course at the 4000-5000 level.

MAA XXXX	(any 3000, 4000, or 5000 level course)
MAD XXXX	(any 3000, 4000, or 5000 level course)
MAP XXXX	(any 3000, 4000, or 5000 level course, except MAP 3401)
MAS XXXX	(any 3000, 4000, or 5000 level course)
MTG XXXX	(any 3000, 4000, or 5000 level course)
any mathematics Honors courses that are approved for this purpose by the Department Standards Committee.	

(Either MAS 3105 or MAS 3106 may be used but not both. Courses may be selected from MAA 4226 and MAA 4227, or MAA 5210 but not both.)

Other Requirements

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 6 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
- A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

MIDDLE EASTERN STUDIES: Minor

College of Arts and Humanities

Middle Eastern Studies Program, CNH 411J

Program Director: Husain Kassim, 407-823-2803

The Middle Eastern Studies minor is designed to complement a student's major area of study. The minor requires a core of Middle Eastern Studies courses as well as a selection of directed electives.

Credit Hour Requirements

21 hrs

Required Courses

(9 hrs)

CPO 3403	Politics of the Middle East	3 hrs
HUM 3419	Islamic Thought and Culture	3 hrs
ASH 3223	The Modern Middle East	3 hrs

Restricted Electives

(12 hrs)

ARA 2200	Intermediate Arabic Language and Civilization I
ASH 3222	Islam and Its Empires
ASH 5227	The Arab-Israeli Conflict
CPO 4710	Women in Comparative Politics
HBR 2200	Intermediate Modern Hebrew I
HUM 3553	Moses, Jesus and Muhammad
JST 3401	The Jewish People I
JST 3402	The Jewish People II
JST 3820	Modern Hebrew Culture
PHH 3200	Medieval Philosophy
REL 2300	World Religions

Additional courses may be used only with prior permission of the program director. Although not required, students are strongly encouraged to complete at least one year of Arabic (ARA 1120, 1121) and/or Hebrew (HBR 1120, 1121).

Other Requirements

- Students who are also minoring or completing a certificate in Judaic Studies may not have more than 3 credits that are counted in both programs.
- At least 15 hours used to satisfy this minor must be at the upper division.
- A grade of “C” or above (2.0) is required in each course for the

minor.

- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

MILITARY SCIENCE: Minor

College of Engineering and Computer Science
Army ROTC, BLDG 501

Contact: LTC Bryce Christensen, 407-823-1872

Credit Hour Requirements **19 hrs**
Required Courses

MSL 3201C	Leadership and Problem Solving	4 hrs
MSL 3202C	Leadership and Ethics	4 hrs
MSL 4301C	Leadership and Management	4 hrs
MSL 4302C	Officership	4 hrs

Select one of the following: **(3 hrs)**

AMH 3541	U.S. Military History to 1900
AMH 3547	U.S. Military History since 1900

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor

MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor

Burnett College of Biomedical Sciences
Department of Molecular Biology and Microbiology
HPA2 335, 407-823-5932

Chair: P.E. Kolattukudy

Credit Hour Requirements **30 hrs**
Required Courses **(23 hrs)**

BSC 2010C	Biology I	4 hrs
MCB 3020C	General Microbiology	5 hrs
PCB 3233	Immunology <i>or</i>	
PCB 4239	Molecular Immunology	3 hrs
PCB 3233L	Immunology Laboratory	1 hr
PCB 3522	Molecular Biology I	3 hrs
PCB 4524	Molecular Biology II	3 hrs
BSC 3403C	Quantitative Biological Methods	4 hrs

Restricted Electives **(7 hrs)**

At least two courses from the Restricted Elective category of the baccalaureate curriculum.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor

MUSIC: Minor

College of Arts and Humanities
Department of Music, CNH 205
<http://www.music.ucf.edu>

Contact: Dr. Keith Koons, 407-823-2869,

E-mail: kkoons@mail.ucf.edu

Credit Hour Requirements **20 hrs**
Required Courses **(11 hrs)**

MUT 1121	Music Theory and Musicianship I	4 hrs
MUT 1122	Music Theory and Musicianship II	4 hrs
MUL 2010	Enjoyment of Music	3 hrs

Restricted Electives **(9 hrs)**

Restricted electives must be taken from the Department of Music at UCF and must include 3 hours minimum at the 3000 or 4000 level. Secondary lessons can be used for electives contingent on a successful audition and approval of the department chair.

MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT (any course) (on the same performance medium)	6 hrs
MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT (3000 or 4000 level course)	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

NORTH AMERICAN INDIAN STUDIES: Minor

College of Sciences
Department of Anthropology, PH 309
<http://www.cos.ucf.edu/anthropology>
E-mail: anthropology@ucf.edu

Contact: Rosalyn Howard, 407-823-2227

The North American Indian Studies minor will enhance a student's understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

Minor Requirements:

- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

Credit Hour Requirements **(18 hrs)**

Required Courses **(3 hrs)**
 ANT 4910 Research 3 hrs

Restricted Electives **(15 hrs)**

Courses used in the minor must be taken in at least two departments. Select from the following list.

ANT 3245	Religions of the N Amer Indians
ANT 3313	Indians of the N Amer High Plains
ANT 3311	Indians of the SE United States
ANT 3158	Florida Archaeology
ANT 4906	Independent Study
ANT 3314	Indians of the NE Woodlands
ANT 3312	Ethnology of N Amer Indians
ANT 3316	Black/Seminole Relations
ANT 3320	Indians of the Southwest
ANT 3318	Indians of the Northwest Coast
AMH 3441	History of the Frontier: E America
AMH 4110	Colonial America
AMH 4112	The Atlantic World
AML 3640	Native American Literature
ANT 4144	Prehistory of North America
ANT 4153	North American Archaeology
PHH 3701	North American Philosophy
SYD 3752	Modern Law in Indian Country
SYD 3751	N Amer Indian Women Today

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

OPERATIONS MANAGEMENT/ENTERPRISE SYSTEMS: Minor

College of Business Administration
Department of MIS, BA 325, 407-823-3173/3174

Credit Hour Requirements **19 hrs**
Prerequisite courses

CGS 2100C	Computer Fundamentals for Business <i>or</i>
CGS 1060C	Intro to Computer Science (or equivalent)
MAC 1105	College Algebra <i>or</i>
MGF 1106	Finite Mathematics

Minors

Required Courses	19 hrs
ISM 3011 Management Information Systems	4 hrs
ISM 3530 Quality and Productivity Management	3 hrs
ISM 4153 Enterprise Information Systems	3 hrs
ISM 4431 Business Process Analysis	3 hrs
ISM 4154 Enterprise Application Development	3 hrs
ISM 4400 Decision Support Systems	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

ORGANIZATIONAL COMMUNICATION: Minor

College of Sciences

Nicholson School of Communication

COM 238, 407-823-2681

<http://communication.cos.ucf.edu>

E-mail: communication@ucf.edu

Contact: Susan Jefferson

Not open to Ad/PR, Interpersonal/Organizational Communication, Journalism, or Radio/TV majors.

Credit Hour Requirements	21 hrs
Required Courses	(6 hrs)

COM 3120 Organizational Communication	3 hrs
COM 3311 Communication Research Methods	3 hrs
Restricted Upper Division Electives	(15 hrs)
COM 3011C Communication and Human Relations	
COM 3110 Business and Professional Communication	
SPC 4426 Group Dynamics	
COM 4461 Intercultural Communication	
COM 4462 Conflict Management	

Independent study or Special Topics course if approved by the coordinator prior to enrolling in the class

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used toward the minor with prior approval.

PHILOSOPHY: Minor

College of Arts and Humanities

Department of Philosophy, CNH 411

<http://www.cas.ucf.edu/philosophy>

E-mail: philosophy@ucf.edu

Contact: Jennifer Mundale, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to philosophical themes related to knowledge, responsibility, and society. Students, in consultation with a departmental advisor, will select courses in accordance with the distributions listed below.

Credit Hour Requirements	21 hrs
Core Requirements	(15 hrs)

Select one course from each of the following groups:

Reasoning		(3 hrs)
PHI 2011 Philosophical Reasoning		
PHI 2101 Critical Thinking		
PHI 2108 Formal Logic I		
PHI 2647 Logic and Ethics		
PHI 3131 Formal Logic II		
History of Philosophy		(3 hrs)
PHH 3100 Ancient Philosophy		
PHH 3200 Medieval Philosophy		
PHH 3460 Modern Western Philosophy		
PHH 3600 Contemporary Philosophy		
Values and Society		(3 hrs)
PHI 3670 Ethical Theory		
PHI 3626 Advanced Ethics in Science and Technology		
PHM 3401 Philosophy of Law		
PHI 3800 Aesthetics		
PHM 3123 Feminist Theories		
PHI 3638 Ethical Issues in the 21 st Century		
PHI 3625 Virtual Ethics		
PHI 4633 Ethics and Biological Science		
PHM 3100 Freedom and Justice		
PHI 3640 Environmental Ethics		
PHM 4031 Environmental Philosophy		
PHH 3701 Native American Philosophy		
PHI 3805 Contemporary Aesthetics		
Being and Knowing		(3 hrs)
PHI 4500 Metaphysics		
PHI 4341 Ways of Knowing		
PHI 4300 Theories of Knowledge		
PHI 3700 Philosophy of Religion		
PHI 4400 Philosophy of Science		
PHI 3320 Philosophy of Mind		
PHI 3451 Philosophy of Psychology		
PHI 4420 Philosophy of Social Science		
PHI 3323 Minds and Machines		
PHP 4782 Phenomenology		
PHI 4221 Philosophy of Language		
Topics in Philosophy		(3 hrs)
PHI 4931 Philosophy in the News		
PHI 3683 Philosophy of Friendship		
PHI 4321 Philosophies of Embodiment		
PHI 3648 Ethical Issues of the Human Genome Project		
PHI 3022 Sexuality, Gender and Philosophy		
PHI 3033 Philosophy, Religion and the Environment		
PHI 4804 Critical Theory		
PHP 3783 Modernity as a Philosophical Problem		
PHI 3750 Problem of Evil		
PHI 3720 Faith and Reason		
PHI 3803 Philosophy and Creativity		
PHI 3941 Philosophy Practicum		
REL 3111 Religion and Philosophy through Film		
PHP 3786 Existentialism		

Upper Division Restricted Electives **(6 hrs)**

Must consult an advisor for approved courses in this area.

Note: Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by departmental advisor.

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Chair.
- Any substitutions must be approved by the department prior to being taken.

PHILOSOPHY, RELIGION AND POPULAR CULTURE: Minor
College of Arts and Humanities
Department of Philosophy, CNH 411
<http://www.cas.ucf.edu/philosophy>
E-mail: philosophy@ucf.edu

Advisor (UCFOrlando Campus): Bruce Janz, 407-823-2273;
 Fax: 407-823-6658;
 Advisor (Cocoa Campus): Shelley Park, 321-433-7919

The Philosophy, Religion, and Popular Culture minor examines popular culture through the critical lenses of philosophy and religious studies. Students interested in the Interdisciplinary Studies major may find this minor particularly helpful. In consultation with a departmental advisor, students will select courses in accordance with the distributions listed below.

Credit hour requirements 21 hrs

Note: Appropriate special topics in philosophy or humanities may be substituted for some core courses with prior approval by department advisor.

Theoretical Foundations (6 hrs)

- PHI 3684 Ways of Living
- PHI 4341 Ways of Knowing

Philosophy (3 hrs)

Select at least one course:

- PHI 2101 Critical Thinking
- PHI 3670 Ethical Theory
- PHI 3700 Philosophy of Religion
- PHI 3800 Aesthetics
- PHM 3100 Freedom and Justice
- PHI 3720 Faith and Reason
- PHP 3786 Existentialism
- PHI 4804 Critical Theory
- PHI 4300 Theories of Knowledge

Religion (3 hrs)

Select at least one course:

- CLA 3851 Comparative Mythology
- HUM 3552 Christian Thought
- HUM 3553 Moses, Jesus, and Mohammed
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 4303 The Spiritual Ideal
- HUM 4554 Religious Quest and Human Dilemma
- PHI 3750 The Problem of Evil

Popular Culture Studies (9 hrs)

A. Contemporary Media

Select at least one course:

- HUM 3320 Contemporary Multicultural Studies
- HUM 4556 Religion and the Arts
- HUM 4330 Performance Theory
- PHI 3625 Virtual Ethics
- PHI 4931 Philosophy In the News
- POS 3235 Mass Media and Politics
- POS 3258 Politics in Film
- REL 3115 Religion, Spirituality and Popular Music
- REL 3111 Religion and Philosophy through Film
- SYP 3630 Sociology of Popular Culture

B. Contemporary Forms of Life

Select at least one course:

- ANT 3302 Sex, Gender and Culture
- HUM 3252 Contemporary Humanities
- PHI 3022 Sex, Gender and Philosophy
- PHI 3629 Family Values
- PHI 3033 Philosophy, Religion and me Environment
- PHM 3401 Philosophy of Law
- PHI 3638 Ethical Issues in the 21st Century
- PHI 3683 Philosophy of Friendship
- PHM 3123 Feminist Theories
- PHI 4321 Philosophies of Embodiment: Mind/Body/Self
- REL 3131 Religion In America

Other Requirements

- A "C" (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department
- No credit by exam (TSD, Military credit) may be used
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

PHYSICS: Minor

College of Sciences
Department of Physics, MAP 310
<http://www.physics.ucf.edu>

E-mail: physics@ucf.edu
 Contact: Talat S. Rahman, 407-823-2325

Credit Hour Requirements 20 hrs
Required Courses (11 hrs)

- PHY 2048 Physics for Eng and Sci I 3 hrs
- PHY 2048L Physics Laboratory for Eng and Sci I 1 hr
- PHY 2049 Physics for Eng and Sci II 3 hrs
- PHY 2049L Physics Laboratory for Eng and Sci II 1 hr
- PHY 3101 Physics for Eng and Sci III 3 hrs

Restricted Upper Division Electives (9 hrs)

Selected from upper-level Physics lecture or laboratory courses appropriate for majors

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

POLITICAL SCIENCE: Minor

College of Sciences
Department of Political Science, CNH 415
E-mail: politics@ucf.edu

<http://www.cos.ucf.edu/politicalscience>
 Contact: Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs
Required Course (3 hrs)

- POS 2041 American National Government 3 hrs

Restricted Upper Division Electives (15 hrs)

- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941L (Internship) may be used.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

POLITICAL SCIENCE/PRELAW: Minor

College of Sciences
Department of Political Science, CNH 415
<http://www.cos.ucf.edu/politicalscience>

E-mail: politics@ucf.edu
 Contact: Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs
Required Courses (6 hrs)

- POS 2041 American National Government 3 hrs
- POS 4284 Judicial Process and Politics 3 hrs

Restricted Elective (3 hrs)

- INR 4401 International Law I
- INR 4402 International Law II
- POS 4603 American Constitutional Law
- POS 4604 American Constitutional Law II

Restricted Upper Division Electives (9 hrs)

- Three Upper Division Political Science Courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941L (Internship) may be counted

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.

Minors

- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior departmental permission.

PSYCHOLOGY: Minor

College of Sciences

Psychology Department, PSY 301

<http://www.psych.ucf.edu/>

E-mail: psychology@ucf.edu

Contact: Psychology Advising Center, PSY 250, 407-823-2219

The Psychology Department minor permits emphasis of several areas; Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. When designing a minor, select courses which strengthen graduate school preparation and/or employment potential. Emphasis areas will not appear on the transcript.

Credit Hour Requirements 25-27 hrs

Required Courses (10 hrs)

PSY 2012	General Psychology	3 hrs
Select one STA course		3 hrs
STA 2014C	Principles of Statistics <i>or</i>	
STA 2023	Statistical Methods I	
PSY 3204	Statistical Methods in Psychology	4 hrs

Restricted Electives (15-17 hrs)

A. Experimental. Select one of the following: 3-4 hrs

EXP 3404	Basic Learning Processes
EXP 3204C	Perception
EXP 3604C	Cognitive Psychology
LIN 3703	Psychology of Oral Communication

B. Personality/Social. Select one of the following: 3 hrs

PPE 3003	Personality Theories
SOP 3004	Social Psychology

C. Developmental. Select one of the following: 3 hrs

DEP 2004	Developmental Psychology
DEP 3202	Psychology of Exceptional Children
DEP 3464	Psychology of Aging

D. Diversity. Select one of the following: 3 hrs

CLP 3184	Women's Mental Health
SOP 3742	Psychology of Women
SOP 3723	Cross Cultural Psychology
SOP 3724	Psychology of Racial Prejudice
SOP 3784	Psychology of Diversity

E. Select one additional Psychology elective 3-4 hrs

Note: INP 3141C, INP 3951, PSY 3905, PSY 4906, PSY 4912 will not fulfill this requirement.

PSY 3951 will not fulfill this requirement without prior approval.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Maintain a minimum GPA of "C" (2.0) in the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
- Not open to psychology majors

PUBLIC ADMINISTRATION: Minor

College of Health and Public Affairs

Department of Public Administration, HPA2 238

Contact: Robert Morin, 407-823-2604, E-mail: rmorin@mail.ucf.edu

Credit Hour Requirements 18 hrs

Required Courses (18 hrs)

PAD 3003	Public Admin in American Society	3 hrs
PAD 4034	The Administration of Public Policy	3 hrs
PAD 4104	Administrative Theory	3 hrs
PAD 4204	Fiscal Management	3 hrs
PAD 4414	Public Personnel Administration	3 hrs
PAD 4720	Survey Research in Public Admin	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 ("C") to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without prior approval.

REAL ESTATE: Minor

Open to Business and Non-Business Students

Not available to Real Estate Majors

College of Business Administration

Dr. P. Phillips School of Real Estate, BA 409

<http://www.bus.ucf.edu/finance>

Credit Hour Requirements 19 hrs

Prerequisite Courses

ACG 2021	Principles of Financial Accounting
ACG 2071	Principles of Managerial Accounting
ECO 2013	Principles of Macroeconomics
ECO 2023	Principles of Microeconomics

Required Courses (13 hrs)

FIN 2104	Personal Finance and Investments	3 hrs
FIN 3403	Business Finance	4 hrs
REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs

Electives (select two of the following) (6 hrs)

REE 4103	Real Estate Appraisal and Valuation	3 hrs
REE 4203	Commercial Real Estate Finance	3 hrs
REE 4204	Residential Real Estate Finance	3 hrs
REE 4303	Real Estate Investment Analysis	3 hrs
REE 4732	Real Estate Development	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
- A maximum of 6 hours of required or elective coursework (from Required Courses and Electives above) can count toward another major or minor degree program.

RECREATION: Minor

College of Education

Department of Teaching and Learning Principles

ED 209

Program Coordinator: Dr Patricia Higginbotham, ED 320K, 407-823-2050, E-mail: higginbp@mail.ucf.edu

This minor will assist students who wish to work in recreation areas such as YMCA's, Boys and Girls Clubs, after school programs, sports for children programs, theme park and resort recreation programs.

Credit Hour Requirements 18 hrs

Required Courses (18 hrs)

PEO 2011	Team Sports	3 hrs
PEO 2031	Individual Sports	3 hrs
DAE 3370	Dance and Rhythmics	3 hrs
PEO 3041	Games Analysis	3 hrs
PET 3765	Coaching Theory	3 hrs
PET 3820	Teaching Sports Skills I	3 hrs

Other Requirements

- No grades below "C" (2.0) will be accepted
- All of these hours must be earned at UCF
- No credit by exam, (TSD, Military credit) may be used
- Independent study credit cannot be used toward the minor

RELIGIOUS STUDIES: Minor

College of Arts and Humanities

Philosophy Department, CNH 411

<http://www.cas.ucf.edu/philosophy>

E-mail: philosophy@ucf.edu

Contact: Claudia Schippert, 407-823-2273

The religious studies minor provides a limited yet coherent range of courses which introduce the student to a range of religious institutions and ideas. Courses are drawn from the departments of Anthropology & Sociology, Art, English, History, Judaic Studies, Philosophy, Political Science, and Psychology, and are to be selected in consultation with the Religious Studies advisor.

Credit Hour Requirements

21 hrs

Required Courses

(3 hrs)

REL 2300 World Religions

3 hrs

Restricted Electives (select from the following courses) (18 hrs)

Religion, Humanities, Classics, and Philosophy courses

REL 3131	Religion in America
REL 3115	Religion, Philosophy and Film
REL 3111	Religion, Spirituality, and Popular Music
REL 4110	Religion and the Arts
HUM 3320	Contemporary Multicultural Studies
HUM 3401	Asian Humanities
HUM 3417	Hindu Thought and Culture
REL 3432	Roots of Western Mysticism
REL 3XXX	Buddhist Thought and Culture
HUM 3419	Islamic Thought and Culture
HUM 3552	Christian Thought
HUM 3553	Moses, Jesus, and Mohammed
HUM 4303	The Spiritual Ideal
HUM 4330	Performance Theory
HUM 4554	Religious Quest and the Human Dilemma
CLA 3850	Classical Mythology
CLA 3851	Comparative Mythology
PHI 3033	Philosophy, Religion, and the Environment
PHI 3638	Ethical Issues in the 21st Century
PHI 3700	Philosophy of Religion
PHI 4321	Philosophy of Embodiment: Mind/Body/Self
PHI 4341	Ways of Knowing
PHI 4804	Critical Theory
PHP 3786	Existentialism
PHI 3033	Philosophy, Religion, and the Environment
PHI 3638	Ethical Issues in the 21st Century
PHI 3700	Philosophy of Religion
PHI 4321	Philosophy of Embodiment: Mind/Body/Self

Courses offered through other Departments

AML 3615	Harlem, Haiti, and Havana
ANT 3241	Magic, Ritual, and Belief
ANT 3245	Native American Religions
ASH 3222	Islam and its Empires
ASH 3223	The Modern Middle East
JST 3401	The Jewish People I
JST 3402	The Jewish People II
JST 3550	Introduction of Modernism into Judaism
JST 3701	History of the Holocaust
JST 3751	Literature of the Holocaust
JST 3810	The Jewish National Movement and Roots of Zionism
LIT 3202	Death and Dying
LIT 4374	Literature of the Bible
SYO 4200	Sociology of Religion

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Director.

SECURE COMPUTING AND NETWORKS (SCAN):

Interdisciplinary Minor

College of Engineering and Computer Science

CECS Academic Affairs, ENGR 107

<http://www.cecs.ucf.edu>

Contact: Kim Small, 407-823-2455, E-mail: ksmall@mail.ucf.edu

Credit Hour Requirements

18 hrs

Required Courses

(9 hrs)

CIS 3360	Security in Computing	3 hrs
CIS 3362	Cryptography and Information Security	3 hrs

Select one:

CDA 4506C	Network Labs	3 hrs
CDA 4527	Computer Communications Network	3 hrs
CET 4483	Local Area Networks	3 hrs
EEL 4781	Computer Networks	3 hrs

Elective Courses

(9 hrs)

Select any three courses from the following list:

Network Security:		
CET 4663	Computer and Network Security	3 hrs
or CIS 4363	Network Security and Privacy	
CET 4882	Network Defense Strategies	3 hrs
Security Management and Administration:		
CET 4668	Practice of Information Security	3 hrs
CET 4884	Security Methods & Practices	3 hrs
CET 4885	Investigative Digital Technology	3 hrs
Secure Software:		
CIS 4361	Secure Operating Systems and Administration	3 hrs
CIS 4615	Secure Software Development and Assurance	3 hrs
COP 4600	Operating Systems	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor
- Pre-requisites to the minor include Programming in C (COP 3223, EGN 3211, CET 2364, or an equivalent) and Math for Calculus (MAC 2147), or equivalent
- No credit by exam (TSD, Military credit) may be used
- Internship, Co-op, or Independent Study credit cannot be used toward the minor

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor

College of Sciences

Department of Sociology, PH 403, 407-823-2227

<http://www.cos.ucf.edu/sociology>

E-mail: sociology@ucf.edu

Contact: J. Corzine, 407-823-2227

Not open to Social Sciences majors.

Credit Hour Requirements

21-22 hrs

Required Courses

(3-4 hrs)

One method course, selected from the three immediately below	
POS 3703	Scope and Methods of Political Science
PSY 3213C	Research Methods in Psychology
SYA 4300C	Research Methods (Sociology)

Restricted Electives

(18 hrs)

Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.

Communication
Economics
Political Science
Public Administration
Psychology
Sociology & Anthropology

Other Requirements

- Students must earn a grade "C" or above (2.0) in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- At least 18 hours must be upper division classes.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

Minors

SOCIOLOGY: Minor

College of Sciences

Department of Sociology, PH 403

<http://www.cos.ucf.edu/sociology>

E-mail: sociology@ucf.edu

Contact: Jay Corzine, 407-823-2227

Credit Hour Requirements

Required Courses

SYG 2000 General Sociology

18 hrs

(3 hrs)

3 hrs

Restricted Electives

2000-4000 level Sociology courses

(3 hrs)

Restricted Upper Division Electives

3000-4000 level Sociology courses

(12 hrs)

Other Requirements

- Earn a minimum GPA of at least 2.0 in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Co-op or internship credit cannot be used toward the minor.
- No more than 3 hours of Independent Study credit can be used toward the minor.
- Not open to Sociology majors.

SPACE STUDIES: Minor

College of Engineering and Computer Science

Department of Engineering Technology, ENGR 207

Contact: N.Y. Misconi, 407-823-4751; Fax: 407-823-4746

In response to the needs of the Central Florida space community, UCF offers a multidisciplinary Minor in Space Studies. It is intended for students of all disciplines.

Credit Hour Requirements

Required Courses

AST 2002 Astronomy
PHY 2053C College Physics I
or PHY 2048 Physics for Engineers & Scientists
ETI 4836 Space Systems Technology

18 hrs

(9/10 hrs)

3 hrs

3/4 hrs

3 hrs

(9 hrs)

Restricted Electives

EMA 4103 Space Environment Technology
ETI 4150 Space QA and Testing
ETI 4835 Rocket Propulsion Technology
ETI 4837 Technology of Small Payloads
ETI 4838 Flight Dynamics Technology
ETI 4381 Ground System Design
EST 3222 Introduction to Photonics
GEO 1200 Physical Geography
or GEO 2370 Resources Geography
or GLY 1030 Geology and its Applications
GIS 4035C Remote Sensing of the Environment
AST 4142 Asteroids, Comets, and Meteorites
CHS 1440 Fundamentals of Chemistry for Engineers
or CHM 2045C Chemistry Fundamentals I
or CHM 1032 General Chemistry

Other Requirements

- Formal declaration of the minor should occur before nine credit hours have been completed.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

SPANISH: Minor

College of Arts and Humanities

Modern Languages and Literatures, CNH 523

<http://www.cas.ucf.edu/forlang/>

E-mail: modernlanguage@ucf.edu

Contact: P. Giordano, 407-823-2472

Credit Hour Requirements

Restricted Electives

18 hrs

- Select six upper division courses in Spanish, including the 3000-level advanced grammar (SPN 3300), advanced oral communication (SPN 3760), and composition courses (SPN 3420).
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

SPORT BUSINESS MANAGEMENT: Minor

(*Business Majors, Business Undecided, and Business Pending only)

College of Business Administration

DeVos Sports Business Management, BA2 205

Contact: K. Harrison, 407-823-1158, E-mail: kharrison@bus.ucf.edu

Completion of Common Program Pre-requisites and Admission to a major within the College of Business Administration

Credit Hour Requirements

Required Courses

SPB 3003	Introduction to Sport Business Management	3 Hrs
SPB 3603	Diversity and Social Issues in Sport Business Management	3 Hrs
SPB 3XXX	Role of Business Entrepreneurship in Sport/Ent	3 Hrs
MAR 4711	Sports Marketing	3 Hrs

Restricted Electives

MAN 4701	Business Ethics and Society	3 Hrs
SPB 4304	Event and Facility Management	3 Hrs
SPB 4804	Sport Business and Media	3 Hrs
MAR 3023	Marketing	4 hrs

Other Requirements:

- A minimum GPA of 2.5 is required in all courses to satisfy the minor.
- Grades below "C" (2.0) or "S" grades.
- At least 9 hours used in the minor must be earned at UCF within the DeVos Sport Business Management Program.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- In some cases, Internship, Independent Study, or Directed Research credit hours may be approved toward the minor by the Department Chair.
- A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

*Students can take any minor courses if they are a Business major. If they are Business Undecided or Business Pending, they can take the three SPB required courses (SPB 3003, SPB 3603, and SPB 3XXX). At the time of graduation, students will have to be a Business major to qualify for a minor in Sport Business Management.

STATISTICS: Minor

College of Sciences

Statistics and Actuarial Science Department, CC II 212

<http://www.oas.ucf.edu/statistics>

E-mail: statistics@ucf.edu

Contact: Xiaogang Su, 407-823-2940

Credit Hour Requirements

Required Courses

Select one course		3 hrs
STA 2023	Statistical Methods I or	
STA 3032	Probability and Statistics for Engineers	
STA 4163	Statistical Methods II	3 hrs
STA 4164	Statistical Methods III	3 hrs

Restricted Upper Division Electives

Select from upper division STA prefix courses taught within the Statistics and Actuarial Science Department.
(STA 3032 cannot be used)

Other Requirements

- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF with-

in the department.

- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor

College of Education

Department of Teaching and Learning Principles, ED 209

<http://reach.ucf.edu/~technical/>

Contact: Dr. Jo Ann M. Whiteman, ED 122-T, 386-506-4041
Email: jwhitema@mail.ucf.edu

The minor in Technical Education and Industry Training provides a limited, but substantive experience in the area of technical education and industry training of adults. The minor is not intended for students admitted to a degree program in the College of Education and does not lead to teacher certification or admission to the College of Education. All courses are offered solely using the Web.

Credit Hour Requirements

18 hrs

Entrance requirements

Junior standing

Required courses

18 hrs

ADE 4382	Teaching Adult Learners	3 hr
EVT 4368	Advanced Teaching Techniques in Vocational Education	3 hr
EVT 3062	Professional role of the Vocational Teacher	3 hr
EVT 3367	Evaluation in Vocational Education	3 hr
EVT 4169	Curriculum Development for Industry Training	3 hr
EVT 4065	Principles and Practices in Vocational Education	3 hr

Other requirements

- A minimum of 4 courses of the 6 required must be completed at UCF within the Program of courses listed above.
- A grade of "C" (2.0) or better must be achieved in each course used for this Minor.
- Internship, Co-op, or Independent Study credit cannot be used towards this Minor.
- No Military credit can be used toward this Minor.
- Completion of this Minor does not complete requirements for certification as a Vocational Education teacher nor does it constitute admission to the College of Education.

TECHNOLOGY AND SOCIETY: Minor

College of Engineering and Computer Science

Contact: Dr. Ronald Eaglin, ENGR 207

The College of Engineering and Computer Science offers a minor in Technology and Society to interested UCF students. The minor is intended for students not enrolled in the College of Engineering and Computer Science, although students in the College may also be awarded the minor.

Credit Hour Requirements

18 hrs

Suggested Prerequisite Courses

MAC 1105	College Algebra
GEP	Cultural and Historical Foundations

Restricted Upper Division Electives

A minimum of nine hours must be taken from the CET/EST/ETI prefix courses listed below

CET 3010	Introduction to Information Technology
EST 3222	Introduction to Photonics
ETI 3671	Technical Economic Analysis
ETI 4205	Applied Logistics
ETI 4635	Technical Administration
ETI 4700	Occupational Safety
ETI 4836	Space Systems Technology
GEO 2370	Resources Geography
LIT 3313	Science Fiction
LIT 4433	Survey of Technical and Scientific Literature
PUP 3203	Environmental Politics
PUP 4503	Government and Science
PUP 4510	Space Policy

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF with-

in the department.

- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
- Prerequisites for any course must be met prior to enrollment. Some courses may have prerequisites not required for the student's major/minor.

THEATRE: Minor

College of Arts and Humanities

Theatre Department, UTC 180

E-mail: theatre@ucf.edu

<http://www.theatre.ucf.edu>

Contact: Kristina Tollefson, 407-823-2862

Credit Hour Requirements

18 hrs

Entrance Requirement

A successful interview, current resume, and three letters of recommendation

Required Courses

(18 hrs)

Note: The number assigned to courses may change.

Use the Prefix and title to determine the proper course.

THE 2000	Theatre Survey	3 hrs
<i>OR</i>		
THE 2020	Survey of Theatre for Majors	
THE 2304	Script Analysis	3 hrs
THE 3111	Theatre History and Dramatic Literature I	3 hrs
TPP 2101	Fundamentals of Acting	3 hrs
TPA 2201	Technical Theatre Production	2 hrs
TPA 2201L	Technical Theatre Production Lab	1 hr

Electives:

(3 hrs)

Any DAA, DAN, THE, TPA, or TPP course as approved by the department

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used toward the minor must be earned from the UCF Theatre Department. Transfer credits are allowed, but student must still complete 12 credits from UCF Theatre Department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

URBAN AND REGIONAL PLANNING: Minor

College of Health and Public Affairs

Department of Public Administration, HPA2 238

Contact: Robert Morin, 407-823-1190; Fax: 407-823-5651,

Email: rmorin@mail.ucf.edu

Urban and regional planning is one area of public administration that has seen considerable growth over the past few years. Areas like Central Florida need many professionals who assist government, communities, and private sector planning organizations to provide growth that is environmentally feasible, aesthetically attractive, socially and politically acceptable, technically sustainable, and economically dynamic. This minor looks at all of these diverse and competing interests, and provides the basics for those interested in employment in this area of great demand. Students who pursue a minor in urban and regional planning may find positions as a city planner, urban designer, planning specialist, environmental program manager, or economic development specialist, among others.

Credit Hour Requirements

21 hrs

Required Courses

(21 hrs)

PAD 3330	Urban and Regional Planning	3 hrs
PAD 4712	Information Systems for Public Managers and Planners	3 hrs
PAD 4331	Land Use and Planning	3 hrs
PAD 4334	Urban Design	3 hrs
PAD 4253	Community and Economic Development	3 hrs
PAD 4351	Issues in Environmental Program Management	3 hrs
PAD 4803	Issues in Urban Administration	3 hrs

Suggested Courses

Students in the Minor program are strongly encouraged to take the following courses as electives to enhance their understanding of the field.

Minors

PAD 4110	Intergovernmental Relations
PAD 4390	Hazard Mitigation and Preparedness
PAD 4392	Emergency Mgmt/Homeland Security

Other Requirements

- A minimum grade of "C" (2.0) is required in each course used to satisfy the minor.
- At least 15 hours used to satisfy the minor must be earned at UCF within the department.
- Internship or Independent Study credit cannot be used toward the minor.
- No credit by exam (TSD, Military credit) may be used.

WOMEN'S STUDIES: Minor

College of Arts and Humanities

Email: womenst@ucf.edu

<http://www.cas.ucf.edu/womenstudies>

Contact: L. M. Logan, 407-823-6502

The Women's Studies minor provides students with an opportunity to learn about women's historical and contemporary roles, gain a working knowledge of interdisciplinary feminist scholarship, and reflect critically on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments and schools, including Anthropology, Art, Communication, Criminal Justice and Legal Studies, Film, English, Exceptional and Physical Education, Health Professions and Physical Therapy, History, Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology, Theatre, and the Women's Studies Program.

Credit Hour Requirements

18 hrs

Required Courses

WST 3015	Introduction to Women's Studies	3 hrs
Select one course from the Theories Group:		
PHM 3123	Feminist Theories	3 hrs
LIT 4554	Advanced Feminist Theories	
WST 3561	Third Wave Feminisms	

Elective Courses (4 courses)

(12 hrs)*

*Students must complete at least two of their four Elective courses from outside their major. Students may count additional courses from the Theories Group as Electives toward the minor. Students may use course substitutions, internship, independent study, or Special Topics credit toward the minor only with the approval of the program director. No more than one 2000-level course will count toward the minor.

Women's Studies Disciplinary Approaches

WST 3XXX	Women and Leadership
WST 3500	Gender Issues in Community Activism
WST 3460	Womanist Studies
WST 4002	Research on Women and Gender

Women's History

AMH 3561	Women in American History I
AMH 3562	Women in American History II
ASH 4304	Women in China
EUH 4610	Women in European Society

Representations of Women

AML 3283	Contemporary American Women's Fiction
ARH 4892	Women in Art
COM 4014	Gender Issues in Communication
FIL 3309	Women in Film
LIT 3383	Women in Literature
LIT 3823	Hispanic Women Writers
PHI 3022	Sexuality, Gender & Philosophy

Women's Wellness

CLP 3184	Women's Mental Health
NUR 4936	Women's Health Issues
PEM 2405 <i>or</i>	Self Defense for Women and Men
SOP 2772	Sexual Behavior
SOP 3742	Psychology of Women

Women and Social Policy

ANT 3302	Sex, Gender and Culture
ANT 4308	Women and Gender Issues in Lat Am
CCJ 4670	Women and Crime
CCJ 4681	Domestic Violence and Justice System
CPO 4710	Women and Comparative Politics
INR 4085	Women, Gender, and Globalization
PUP 3325	Women and Political Behavior
PUP 4323	Women and Public Policy
SYD 3751	North American Indian Women Today
SYD 3800	Sex Roles in Modern Society

SYD 4810	Women in Contemporary Society
SYD 4813	Women and Social Policy
SYO 4100	Family Trends

Other Requirements

- Minimum grade of "C" (2.0) is required in each course used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, military credit) may be used.

WORLD COMPARATIVE STUDIES: Minor

Office of Interdisciplinary Studies

<http://www.is.ucf.info>

CL-I 302, E-mail: is@mail.ucf.edu

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The World Comparative Studies (WCS) minor is an interdisciplinary academic program intended to prepare students to live and work in, and make sense of, an increasingly interdependent and multicultural world. Students with an interest in international studies, as well as careers in business, communications, economics, education, environmental science, history, and politics, are invited to consider the minor as a supplement to their major.

All students must engage in an approved international experience. The language proficiency requirement must also be met.

Total Credit Hour Requirements

(18 hrs)

Foundation Requirement

(3 hrs)

IDS 3333	World Comparative Studies
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Thematic Concentrations Restricted Electives

(15 hrs)

Select five courses from within one of the concentrations (A-F) below. Courses not on the list may be taken with the prior approval of the program advisor. Students must meet all prerequisites before enrolling in these courses. No more than 6 hours of coursework may overlap in a student's major and this minor, with permission of the Interdisciplinary Studies office. Two upper division foreign language courses (6 hours) may be substituted in any of the thematic concentrations.

A. Language and Culture

AML 3615	Harlem, Haiti, and Havana
ANT 3640	Language and Culture
ANT 3145	Archaeology of Complex Societies
ANT 3319	The Anthropology of Diaspora
ANT 3212	Peoples of the World
ANT 4702	Culture, Power and Development
FSS 3008	Culture and Cuisine
HFT 4866C	Exploring Wines of the World
HFT 3868	History and Culture of Wine
HFT 4894	International Gastronomy
HUM 3419	Islamic Thought and Culture

Regional courses: Students may take up to two courses dealing with at least two regions of the world in consultation with academic advisor in the Office of Interdisciplinary Studies.

B. Economics

ANT 4702	Culture Power and Development
ECO 3703	International Trade
ECO 4XXX	International Macroeconomics
ECO 4701	Seminar in Global Economic Policy
ECS 4013	Economics of Developing Areas
ECP 3303	Economics and the Environment
HFT 3700	Tourism Management
INR 4035	International Political Economy

C. Biological and Geophysical Environment

IDS 3150	Foundations of Environmental Studies
ECP 3303	Economics and the Environment
SYD 4510	Environmental Sociology
HFT 4735	Tourism Geography
INR 4351	International Environmental Law
ENV 3001	Intro to Environmental engineering
GIS 3043C	GIS for Environmental Studies
GIS 4035C	Remote Sensing of the Environment
PHI 3033	Philosophy, Religion, and the Environment
PHI 3640	Environmental Ethics

D. Social Structure and Change

ANT 3145	Archaeology of Complex Societies
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ANT 3273 Law and Culture
 ANT 4702 Culture Power and Development
 PLA 4830 World Legal Systems
 SOW 5109 Violence Against Women
 SYP 4454 Sociology of the Global System

E. Media and Communication

FIL 3510 World Cinema Traditions
 FIL 3514 International Cinema
 FIL 4564 Africana Cinema
 COM 4461 Intercultural Communication
 LIN 4643 Cross Cultural Communication
 THE 3312 Global Theater

F. World Independent Specialization

Any five upper division courses from the approved list of courses in any thematic concentration may be selected for this option with approval of the Interdisciplinary Studies office.

Foreign Language Proficiency Requirement (0-8 hrs)

Students must demonstrate the equivalent of one year of successful college-level study in a foreign language. They can do this either by successful completion of the appropriate college-level course(s) or by examination.



CERTIFICATES

ADDICTIONS: Certificate

College of Health and Public Affairs

School of Social Work, HPA1 204

E-mail: socialwk@mail.ucf.edu

BSW Coordinator: 407-823-2114

This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida but not the certificate program.

Admission Requirement:

This certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addictions courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements: 12 hrs

Required Courses:

SOW 4706	Interventions with Substance Abusers	3 hrs
SOW 3352	Practice II: Interpersonal Skills	3 hrs
SOW 4341	Micro-Level Roles and Interventions	3 hrs

Restricted Electives:

Select from one of the following:

SOW 4705	Prevention and Treatment of Adolescent Substance Abuse	3 hrs
SOW 4906	Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses)	3 hrs
CCJ 4651	Drugs and Crime	3 hrs

AGING STUDIES: Undergraduate Certificate

College of Health and Public Affairs

School of Social Work, HPA1 204

E-mail: socialwk@mail.ucf.edu

BSW Coordinator: HPA1 407-823-2114

In recognition of the special needs of the older adults in Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. Students may complete the Aging Studies certificate (with the exception of the internship requirement) as a fully web-based program. Students must contact the coordinator to plan their internship in the semester prior to the semester they intend to complete the internship.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Course

GEY 3001	Gerontology: Interdisciplinary Overview	3 hrs
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Required Internship: (Select one) 3 hrs

SOW4510	Field Education	9 hrs
HSA 4941	Internship	3 hrs
PSY3951	Internship	3 hrs
SYP 4941	Internship	3 hrs

Electives (9 hrs)

- Students select three additional courses from the following: (a maximum of two courses in their College and at least one course must be outside their college).

College of Health and Public Affairs

HSA 4220	Long Term Care	3 hrs
HSA 3222	Long Term Administration	3 hrs
HSC 4564	Health Care Needs of the Elderly	3 hrs
NUR 4286	Gerontologic Nursing	3 hrs
PLA 4530	Legal Issues of the Elderly	3 hrs
SOW 4645	Social Services for the Elderly	3 hrs

Other Colleges:

DEP 3464	Psychology of Aging	3 hrs
SYP 4730	Sociology of Aging	3 hrs
GEY 5007	Women and Aging	3 hrs
LIT 3930	Literature of Aging	3 hrs
SYP 4734	Minority Aging	3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C" (2.0) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit), may be used.
- Independent Study cannot be used toward the minor.

AMERICAN SIGN LANGUAGE (ASL): Certificate

College of Health and Public Affairs

Department of Communication Sciences and Disorders, HPA2, Suite 101

<http://www.cohpa.ucf.edu/comdis>

Chair: R. Jane Lieberman, 407-823-4798;

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,

E-mail: jschwartz@mail.ucf.edu

This certificate is designed to provide students with the conversational competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for individuals who wish to enhance their ability to communicate with the Deaf community and to enhance their employment potential, including undergraduate students majoring in communication sciences and disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and the general public.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 16 hrs

Required Courses

SPA 2612	Introduction to American Sign Language	4 hrs
SPA 2613	Intermediate American Sign Language	4 hrs
SPA 4614C	American Sign Language III	4 hrs
SPA 4615	American Sign Language IV	4 hrs

Other Requirements

- A minimum grade of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 8 hours used in the program must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the certificate.

BEHAVIORAL FORENSICS: Certificate

College of Sciences

Psychology Department, PSY 301

<http://www.psych.ucf.edu/>

E-mail: kmottare@ucf.edu

Contact: Dr. Mottarella, 321-433-7982

Credit Hour Requirements 27 hrs

Prerequisite Courses (6 hrs)

Complete one introductory course	GEF
PSY 2012	General Psychology <i>or</i>
SYG 2000	General Sociology

PPE 3003	Personality Theories	3 hrs
SYP 3510	Soc of Deviant Behavior	3 hrs
Required Courses		(12 hrs)
CLP 4390	Forensic Psychology	3 hrs
SOP 3751	Legal Aspects of Psych	3 hrs
SYP 3520	Criminology	3 hrs
Select one course:		3 hrs
SYP 3540	Sociology of Law	
SYD 4813	Women and Social Policy	

Restricted Electives (9 hrs)

Note: It is the student's responsibility to meet all prerequisites for every course selected

From Psychology, select one of the following:

CLP 3143	Abnormal Psychology
CLP 3302	Clinical Psychology
CLP 4134	Childhood Psychopathology
PCO 4203	Interviewing and Counseling

From Sociology, select one of the following:

SYP 3511	Sociology of Murder
SYP 3530	Juvenile Delinquency
SYP 3562	Soc Perspectives on Domestic Violence
SYP 4521	Criminal Victimization in Society
SYP 4514	Sociology of Violence
SYP 4536	Gangs and Society

From Criminal Justice, select one of the following:

CCJ 3014	Crime in America
CCJ 3024	Criminal Justice System
CCJ 4670	Women and Crime
CJE 4630	Serial Murder & CJ
CCJ 4616	Criminal Profiling in CJ
CCJ 3667	Victims and the CJ System
CCJ 4681	Domestic Violence & the Justice System
CCJ 4690	Sex Offenders & the CJ System

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

CHILDREN'S SERVICES: Certificate

College of Health and Public Affairs
School of Social Work, HPA1 204
E-mail: socialwk@mail.ucf.edu

BSW Coordinator: 407-823-2114

This certificate is open only to students in the undergraduate social work program. The Children's Services Certificate is designed to help students learn about the various components of the child welfare system and how that system impacts children and families. Students are prepared to identify child welfare problems such as child abuse and neglect experienced by children and families and are taught basic skills in working with families and with the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 18 hrs

Required Courses		
SOW 3352	Practice II: Interpersonal Skills	3 hrs
SOW 4654	Children's Services	3 hrs
SOW 4650	Child Abuse: Treatment & Prevention	3 hrs
SOW 4510	Field Education*	9 hrs

*Placement with the Department of Children and Families-working with child welfare or placement in an agency that serves children.

Note: Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

CRIME ANALYSIS AND CRIME MAPPING: Certificate

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA1 311

Contact: Cory Watkins, 407-823-0365,
E-mail: rwatkins@mail.ucf.edu

Crime analysis and crime mapping are now recognized as essential and vital functions in law enforcement. Analysts take advantage of state-of-the-art computer technologies to support operations, investigations, and management. These specialists take data and produce information that is used to identify crime patterns, monitor crime trends, forecast future crime events, prepare statistical crime reports, and work directly with investigators to identify suspects. Five classes (15 credit hours) are required for this undergraduate certificate. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses (in sequence) (9 hrs)

CJE 3662	CJ Information Technology and Data Management	3 hrs
CJE 4663	Crime Analysis I	3 hrs
CCJ 4076	Crime Analysis II	3 hrs

Restricted Upper Division Electives (6 hrs)

Select two of the following:

CCJ 3451	Justice System Technology	3 hrs
CJE 3444	Crime Prevention	3 hrs
CJE 4654	Crime and Place	3 hrs
CCJ 3450	Criminal Justice Manager	3 hrs
CCJ 4454	Policy Development in Law Enforcement	3 hrs
CCJ 4459	Justice Agency Operations	3 hrs

Other Requirements

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIME SCENE INVESTIGATION: Certificate

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA1 311; Department of Sociology and Anthropology,
PH 403

Contact: David Fabianic, 407-823-5940,
E-mail: Fabianic@mail.ucf.edu; Dr. Mary Ann Eastep, 407 823-3598,
E-mail: meastep@mail.ucf.edu; John J. Schultz, 407-823-2618,
E-mail: jschultz@mail.ucf.edu

Crime scene processing is increasingly becoming a multi-disciplinary endeavor with the application of technologically advanced methods. Treatment of the initial crime scene is fundamental not only to the pursuit of offenders but also to the presentation of the prosecutor's case once offenders have been apprehended. The certificate program is a means of organizing information required to perform basic crime scene investigations. It provides theoretical and practical information used to assess crime scenes, the technology available and the procedures to employ in order to produce a forensically valuable product. The program requires 15 credit hours of undergraduate work. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses (12 hrs)

ANT 4521C	Forensic Anthropology	3 hrs
ANT 4101	Archaeological Sciences	3 hrs
CCJ 4616	Criminal Profiling in CJ	3 hrs
CJT 4100	Criminal Investigation	3 hrs

Restricted Upper Division Electives (3 hrs)

Select one of the following:

ANT4528C	Advanced Forensic Anthropology	5 hrs
SYP3511	Sociology of Murder	3 hrs
CJE 4630	Serial Murder and the Criminal Justice System	3 hrs
CCJ 4195	Interviews and Interrogations in CJ	3 hrs
CHS 3501	Introduction to Forensic Science	3 hrs
ANT 3115	Archaeological Method and Theory	3 hrs

Other Requirements

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.

Certificates

- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIMINAL PROFILING: Certificate

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA1 311

Contact: Dr. Mary Ann Eastep, 407 823-3598,
 E-mail: meastep@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today's law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements	15 hrs
Required Courses	(12 hrs)
CLP 3143 Abnormal Psychology	3 hrs
CJE 4630 Serial Murder and the Criminal Justice System	3 hrs
CCJ 4690 Sex Offenders and the Criminal Justice System	3 hrs
CCJ 4616 Criminal Profiling in Criminal Justice	3 hrs

Restricted Upper Division Electives (3 hrs)

Select one of the following:	
CJT 4100 Criminal Investigation	3 hrs
CCJ 4661 Terrorism	3 hrs
CCJ 4195 Interviews and Interrogations in CJ	3 hrs

Other Requirements

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

CULTURAL TOURISM: Certificate

Office of Interdisciplinary Studies
CL-I, Room 302, E-mail: is@mail.ucf.edu
<http://www.is.ucf.edu>

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

This certificate harnesses the naturally related fields of tourism to cultural studies, focusing on the specific cultural and business conditions in Central Florida as well as tourism. The certificate complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

Credit Hour Requirements	18 hrs
Required Courses	(12 hrs)
HFT 3540 Guest Service Management	3 hrs
HFT 3700 Tourism Management	3 hrs
HFT 4735 Tourism Geography	3 hrs
ANT 4438 Anthropology of Tourism	3 hrs

Choose two classes from one of the following areas (6 hrs)

African American Heritage area (choose two classes)	
AFA 3104 The African American Experience	
AFA 4105 Documenting African American Heritage and Life	
SYD 3700 Race and Ethnic Minorities in the United States	

Anthropology area (choose two classes)	
ANT 2100 Archaeology and the Rise of Human Culture	
ANT 3212 Peoples of the World	
ANT 2410 Cultural Anthropology	
ANT 3115 Archaeological Method and Theory	
ANT 3930 Applied Anthropology	

Environmental Tourism area (choose two classes)	
BOT 3152C Local Flora	
PCB 3442 Florida Aquatic Ecology	
INR 4351 International Environmental Law	
PUP 3203 Environmental Politics	

PUP 4204 Sustainability	
SYD 4510 Environmental Sociology	
Latin American area (choose two classes)	
ANT 3163 Meso American Archaeology	
ANT 3168 Maya Archaeology	
ANT 4332 Peoples and Cultures of Latin America	
ANT 4340 Caribbean Archaeology	
ARH 4655 Meso American Art	
CPO 4303 Comparative Latin American Politics	
LAH 3400 History of Mexico and Central America	
LAH 3470 History of the Caribbean	
LAH 3130 Latin American History I	
LAH 3200 Latin American History II	

Other Requirements

- A grade of "C" or above (2.0) is required in each course used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit can not be used toward the certificate without prior permission of the program director

DIGITAL MEDIA: Certificate

College of Arts and Humanities
Digital Media, 500 OTC
<http://www.dm.ucf.edu>
E-mail: digitalmedia@dm.ucf.edu

Digital Media Head: David Vickers, 407-823-6110

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

Entrance Requirement

- Admission to the Digital Media Certificate requires evaluation of a portfolio of work which demonstrates the student's creativity and technical accomplishment in some artistic or technical domain.
- All evaluations are conducted by the division's curriculum committee.

Credit Hour Requirements: 12 hrs

Required Course: (3 hrs)

DIG 3525 Digital Media Production I 3 hrs

Restricted Elective: (3 hrs)

Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program Director prior to being taken)

Senior Project: (6 hrs)

DIG 4524L Digital Media Project I 3 hrs
 DIG 4528 Digital Media Project II 3 hrs
 (may be repeated for credit)

Other Requirements

- A minimum grade of "C" (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used in the certificate only with prior written permission.

FINANCE: Certificates*

College of Business Administration
BA 409

<http://www.bus.ucf.edu/finance>

Restricted to finance majors

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 12-15 hrs

Certificate in Banking 15 hrs

FIN 4313 Management of Financial Institutions	3 hrs
FIN 4324 Commercial Bank Management	3 hrs
ACG 3131 Financial Accounting Concepts & Analysis	3 hrs
ACG 3141 Intermediate Financial Accounting	3 hrs
MAR 3391 Professional Selling or	
FIN 4941** Internship	3 hrs

- An internship must be a paid internship with a financial services firm, and must be approved by the Department of Financial Internship coordinator and a banking faculty member. Both MAR 3391 and FIN 4941 are recommended if the student's schedule

- allows it.
- No course grade lower than a C will be accepted for the certificate requirements, and the average GPA for the five courses must be 3.0 or higher.

Certificate in Corporate Finance	12 hrs
ACG 3131 Financial Accounting Concepts & Analysis	3 hrs
FIN 3414 Intermediate Corporate Finance	3 hrs
FIN 3470 Financial Statement Analysis <i>or</i>	3 hrs
FIN 4424 Adv Topics in Financial Management	3 hrs
FIN 4941** Internship	3 hrs

Certificate in Investments	12 hrs
FIN 3504 Investment Analysis	3 hrs
FIN 4514 Portfolio Analysis and Management	3 hrs
FIN 4533 Financial Derivatives	3 hrs
**FIN 4941 Internship	3 hrs

*Restricted to finance majors. These certificates do not require additional hours beyond the finance major program. They are intended to allow students to develop specializations in areas of interest.

JUDAIC STUDIES: Certificate

College of Arts and Humanities

Judaic Studies Program, CNH 201

http://www.cas.ucf.edu/judaic_studies

E-mail: judaicst@ucf.edu

Contact: Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Interdisciplinary Studies and Women's Studies Programs. The certificate in Judaic Studies will be awarded to students completing 15 hours in the following Judaic Studies courses.

Credit Hour Requirements 15 hrs

Language	
HBR 1120 Elementary Modern Hebrew Lang and Cult I	
HBR 1121 Elementary Modern Hebrew Lang and Cult II	
HBR 2200 Intermediate Modern Hebrew Language and Culture I	
HBR 2201 Intermediate Modern Hebrew Language and Culture II	
HBR 3410 Conversational Israeli Hebrew	

Jewish History	
JST 3401 The Jewish People I	
JST 3402 The Jewish People II	
JST 3550 Introduction of Modernism into Judaism	
JST 3701 History of the Holocaust	

Bible	
JST 3120 Jewish Scriptures	
JST 3125 The Book of Job	
JST 3126 Romantic Love in the Bible	
JST 3144 Dead Sea Scrolls	

Literature	
JST 3100 The Hebrew Creative Mind	
JST 3751 Literature of the Holocaust	

Culture	
JST 3450 Modern Jewish Experience	
JST 3820 Modern Hebrew Culture	
JST 3810 The Jewish National Movement	

Other courses, including special topics, with the approval of the Director

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

LANGUAGE DEVELOPMENT AND DISORDERS:

Certificate

College of Health and Public Affairs

Department of Communication Sciences and Disorders, HPA2, Suite 101

<http://www.cohpa.ucf.edu/comdis>

Chair: R. Jane Lieberman, 407-823-4798;

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,

E-mail: jschwart@mail.ucf.edu

Language disorders are the most prevalent communication disorder. Typically children, adolescents and adults with language disorders are served via a team approach that includes speech-language pathologists, psychologists, neurologists, pediatricians, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 13 hrs

Required Courses	
LIN 3716 Language Development: Birth Through 8 Years	3 hrs
LIN 3717 Language Development: 9-18 Years	3 hrs
LIN 4711 Language Analysis	3 hrs
LIN 4711L Language Analysis Lab	1 hr
SPA 4400 Language Disorders Across the Life Span	3 hrs

Other Requirements

- A minimum grade of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 10 hours used in the program must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) internship or independent study credit may be used toward the certificate.

MARKETING: Certificates

College of Business Administration

Department of Marketing, BA2 307S

*Restricted to Marketing majors 6 hrs

Certificates will be awarded only at the time of degree completion.

Certificate in Selling and Sales Management

MAR 3403 Sales Force Management	
**MAR 4941 (internship in sales-related position)	

Certificate in Retailing Management

MAR 4231 Retailing Management	
**MAR 4941 (internship in retail-related position)	

Certificate in e-Marketing

MAR 3880 e-Marketing	
**MAR 4941 (internship in "e"-related position)	

Certificate in Sport Marketing Management

MAR 4711 Sport Marketing	
**MAR 4941 (internship in sport-related position)	

Certificate in Healthcare Marketing

MAR 4712 Healthcare Marketing	
**MAR 4941 (internship in healthcare-related position)	

Certificate in Services Marketing

MAR 4841 Services Marketing	
**MAR 4941 (internship in services-related position)	

Certificate in Entertainment Marketing

MAR 4715 Entertainment Marketing	
**MAR 4941 (internship in entertainment-related position)	

*These six hours count as the six elective marketing hours required in the major.

**Certificate attainment is subject to the availability of internship opportunities in the area of interest.

Certificates

NONPROFIT MANAGEMENT: Certificate

College of Health & Public Affairs

Department of Public Administration, HPA2 238

<http://www.cohpa.ucf.edu/pubadm/>

Contact: Dr. Mary Ann Feldheim, 407-823-2604

The Certificate program will provide basic knowledge in nonprofit management, resource development, volunteer management, strategic planning, and program evaluation for those students interested in nonprofit sector management as a career.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements

18 hrs

Required Courses

(15 hrs)

PAD 4144	Nonprofit Organizations	3 hrs
PAD 4148	Volunteer Management	3 hrs
PAD 4147	Resource Dev. in the Nonprofit Sector	3 hrs
PAD 4325	Program Eval. Public & Nonprofit Org	3 hrs
PAD 4153	Strategic Planning & Implementation	3 hrs

Restrictive Elective Course

(3 hrs)

See advisor for approved courses.

Other Requirements

- A minimum grade of "C" (2.0) is required in each course.
- Students must earn a 2.0 ("C") for credit to be accepted.
- At least 12 hours used in the program must be earned at UCF within the Department of Public Administration.

REAL ESTATE: Certificates*

College of Business Administration

Dr. P. Phillips School of Real Estate, BA 409

<http://www.bus.ucf.edu/finance>

Credit Hour Requirements

15 hrs

Certificates will be awarded only at the time of degree completion.

Certificate in Real Estate Brokerage

(Completion of this certificate qualifies a student to sit for the Florida real estate sales license)

REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4303	Real Estate Investing Analysis	3 hrs
MAR 3391	Professional Selling	3 hrs
REE 4941**	Internship (real estate brokerage)	3 hrs

Certificate in Real Estate Appraisal

(Completion of this certificate qualifies a student to sit for the Florida real estate appraiser's license.)

REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4103	Real Estate Appraisal and Valuation	3 hrs
MAR 3391	Professional Selling	3 hrs
REE 4941**	Internship (real estate appraisal)	3 hrs

Certificate in Mortgage Brokerage

(Completion of this certificate qualifies a student to sit for the Florida mortgage broker's license)

REE 3043	Fundamentals of Real Estate	3 hrs
REE 3433	Real Estate Law	3 hrs
REE 4204	Residential Real Estate Finance	3 hrs
MAR 3391	Professional Selling	3 hrs
REE 4941**	Internship (mortgage brokerage)	3 hrs

*Restricted to real estate majors. These certificates do not require additional hours beyond the BSBA real estate major program. They are intended to allow students to develop specializations in specific areas of interest and to prepare for licensing exams.

**Internship must be paid internship in the area of specialization, and should be completed in the senior year after completing at least 6 hours of real estate courses. Internship packets are available in the Department of Finance (BA 409). Certificate attainment is subject to the availability of internship opportunities in the area of interest. A student must have earned an overall GPA of at least 2.75 to qualify for an internship.

SECURITY MANAGEMENT: Certificate

College of Health and Public Affairs

Department of Criminal Justice and Legal Studies,
HPA 311

Contact: Jerome Randall, 407-823-2603,

E-mail: jrandall@mail.ucf.edu

The security industry is rapidly growing in the State of Florida and in the nation. This area is in need of qualified, innovative managers and leaders to meet the demands of the twenty-first century. A student in this certificate program will gain experience in risk assessment, legal issues, and contemporary approaches to security management.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements

15 hrs

Required Courses

(12 hrs)

CJT 3804	Security Administration	3 hrs
CJT 3803	Security Management	3 hrs
CJT 4843	Risk Management	3 hrs
CCJ 4644	White Collar Crime	3 hrs

Restricted Upper Division Electives

(3 hrs)

Select one of the following:

CCJ 4661	Conflict and Terrorism	3 hrs
CJE 3444	Crime Prevention	3 hrs
CJT 3842	Special Security Problems	3 hrs
PLA5937	Seminar in Contemporary Legal Problems	3 hrs
PLA3273	Law of Torts	3 hrs

Other Requirements

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

SERVICE-LEARNING: Certificate

Office of Undergraduate Studies

Experiential Learning, PH 208

<http://www.service.learning.ucf.edu>

Contact: S. Dressler, 407-823-5000, E-mail: EL@mail.ucf.edu

The certificate program in Service-Learning is designed for students in any discipline who seek to engage in a reflective analysis of community service as it relates to academic course work. Service-Learning furthers the learning objectives of the academic course, addresses community needs, and requires students to reflect on their activity in order to gain an appreciation for the relationship between civics and academics. Through Service-Learning (SL) courses, students develop academic skills, civic responsibility, and career opportunities. This certificate is open to all undergraduate and graduate students in any major.

Credit Hour Requirements

12 hrs

Course Requirements:

4 UCF-approved SL courses

Students may choose any four (4) of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an "SL" and can be accessed under "special groups" in the class schedule.

Other Requirements

- Minimum GPA of 2.5 in UCF-approved SL classes.
- Minimum of 60 community service hours in four (4) UCF-approved SL classes.

SUBSTITUTE TEACHING: Certificate

College of Education

Department of Educational Studies, ED 206 E

<http://www.edcollege.ucf.edu/esdepart>

Program Coordinator: Dr. Muthoni Musangali, ED 206E,
407-823-6579, E-mail: muthoni@mail.ucf.edu

The Substitute Teaching Certificate is designed for undergraduates who want to prepare themselves for substitute teaching assignments in PK-12 schools. The certificate is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The

certificate is appropriate for students who are seeking an enhanced understanding of how to be an effective substitute teacher in PK-12 school classrooms, or for those who are considering a future career as a fully certified teacher. This certificate may also strengthen the marketability of students' major programs.

Credit Hour Requirements 9 hrs

Required Courses

EDF 2007	Introduction to Substitute Teaching	3 hrs
EDG 2250	Classroom Management for Substitute Teachers	3 hrs
EDG 2311	Teaching Strategies for Substitute Teachers	3 hrs

Other Requirements:

- A minimum GPA of 2.5 in all courses
 - No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.
 - At least 6 hours used in the certificate must be earned at UCF.
- Note: Completion of this certificate does not complete the requirements for teacher certification, nor does it constitute admission to the College of Education.

TRANSLATION AND INTERPRETATION: Certificate

**College of Arts and Humanities
Modern Languages and Literatures, CNH 505**

<http://www.cas.ucf.edu/forlang>

E-mail: foreignlanguage@ucf.edu

Contact: Maria Redmon, CNH 512, 407-823-5738,
E-mail: mredmon@mail.ucf.edu

Credit Hour Requirements 18 hrs

Required Skills

Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses (12 hrs)

SPT 3800	Span Translation and Interpretation	3 hrs
SPT 3805	Span Trans & Interp for Mass Com	3 hrs
SPT 3809	Medical Span Trans/Interp	3 hrs
SPT 3831	Spanish Legal Trans/Interp	3 hrs

Restricted Upper Division Electives (6 hrs)

SPN 3933	Spanish Across the Curriculum	3 hrs
SPN 4941	Internship	3 hrs

Any upper division SPN or SPT course with advisor's approval

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate.
- Satisfactory completion of translation and interpretation exit exam.

VICTIM ADVOCACY: Certificate

**College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA1 311**

Contact: Dr. Mary Ann Eastep, 407-823-3598,
E-mail: meastep@mail.ucf.edu

The Criminal Justice System can be difficult for crime victims to navigate. This Certificate in Victim Advocacy provides a theoretical and practical knowledge base for professionals in various fields who work or plan to work with and advocate for crime victims. The program requires 15 hours of undergraduate work. Courses are offered by the Department of Criminal Justice and Legal Studies, the College of Nursing, the Department of Sociology, and the School of Social Work.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses (9 hrs)

CCJ 3667	Victims and the CJ System	3 hrs
CCJ 4670	Women and Crime	3 hrs
CCJ 4681	Domestic Violence and the CJ System	3 hrs

Restricted Upper Division Electives (6 hrs)

Select two of the following:

SYP 4521	Criminal Victimization in Society	3 hrs
NUR 4196	Crisis Intervention	3 hrs
SOW 4754	Forensic Social Work Theory and Practice	3 hrs
CJJ 4564	Delinquency Control	3 hrs
CCJ 4690	Sex Offenders and the Criminal Justice System	3 hrs
CCJ 4463	Cultural Diversity in Criminal Justice	3 hrs

Other Requirements

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

**WOMEN'S STUDIES: Certificate
College of Arts and Humanities**

Women's Studies Program, CNH 201H

<http://www.cas.ucf.edu/womensstudies>

Email: womenst@ucf.edu

Contact: L. M. Logan, 407-823-6502,

The certificate program in Women's Studies is designed to provide students with a basic, working knowledge of gender roles and women's issues. The certificate program is open to both degree-seeking and non degree-seeking students, but should be particularly beneficial to students in professional degree programs who will serve women and/or girls as a client population, but whose elective hours are restricted.

Credit Hour Requirements 12 hrs

Required Course: (3 hrs)

WST 3015	Introduction to Women's Studies	3 hrs
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Electives (9 hrs)

See listing for minor. Certificate students are exempt from the distribution requirements and should select foundations courses that best complement their major area of study.

Internship Option: (0-3 hrs)

internship required by a student's major degree program may count for credit toward the certificate, if placement is substantively related to women and/or women's issues.

Other Requirements

- A GPA of 2.0 or better is required in all courses used to satisfy the certificate.
- Grades of "C" or below will not be counted toward the Women's Studies Minor.
- At least 9 hours used in the certificate must be earned at UCF.

STUDY ABROAD PROGRAMS

International Studies and Programs

Assistant Vice President of International and Interdisciplinary Studies: Dr. Diane Z. Chase; *Associate Director:* Angel Cardec; Research Pavilion, Suite 395, P.O. Box 163105, Orlando, FL 32816-3105; 407-882-2300; Fax: 407-275-4386; <http://www.international.ucf.edu>.

The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university's broader strategic plan for internationalization.

The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocolary statements of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Study Abroad Programs

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self confidence, and awareness of other cultures are only some of the benefits of study abroad. Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages' intensive programs in France, Japan, Germany, Spain and Italy; Social Work Department programs in South Africa and Russia; Criminal Justice in Costa Rica and Russia, Nursing in Sweden, Education in the United Kingdom, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Qingdao University in China; Université de Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jonkoping, Mallardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom.

UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system. UCF students apply to these programs directly and must become transient students at the host institution.

There are many additional study abroad options available to UCF students. It is important that students investigate their choices, the requirements and the implications that each choice has in terms of cost, credit transferability and progress toward graduation. OIS staff members can provide program advice and general information about options. For up-to-date information, please visit <http://www.international.ucf.edu>, or contact the office at 407-882-2300.

ACCELERATED UNDERGRADUATE-GRADUATE PROGRAMS

AEROSPACE ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM

(B.S.A.E./M.S.A.E. or M.S.M.E.)

College of Engineering and Computer Science
Mechanical, Materials, and Aerospace Engineering
Department

ENGR 307, 407-823-2416; Fax: 407-823-0208,
<http://www.mmae.ucf.edu>

Admission Guidelines

- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 64 credit hours
- Completion of no more than 96 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)

(See Aerospace Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Aerospace Engineering major in this catalog for the CPP requirements)

3. Courses Required for the Major (55 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do **not** satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3343	Thermodynamics	3 hrs
EMA 3706	Structure & Properties of Aerospace Materials	3 hrs
EGN 3373	Principles of Electrical Engring	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EAS 3010	Fundamentals of Aerospace Flight	3 hrs
EAS 3101	Aerodynamics I	3 hrs
EAS 3800C	Aerospace Engineering Measurements	3 hrs
EAS 3810C	Design of Aerospace Experiments	2 hrs
EAS 4105	Flight Mechanics	3 hrs
EAS 4134	High-Speed Aerodynamics	3 hrs
EAS 4200	Flight Structures	3 hrs
EAS 3530	Space Systems Concepts	
or EAS 4400	Spacecraft Attitude Dynamics	
or EAS 4505	Orbital Mechanics	3 hrs
EAS 4300	Aerothermodynamics-Propulsion Sys	3 hrs
EML 3034	Modeling Methods in MMAE	3 hrs
EML 4312C	Feedback Control	3 hrs
EGM 3601	Solid Mechanics	3 hrs
EAS 4210	Space Structural Design	3 hrs

4. Approved Technical Electives (10 hrs)

Technical electives should be taken at the 5000 or 6000 level and are available in the BSAE program to address specific student interests in a variety of technical areas. Students must consult with their assigned academic advisor for a list of the approved technical electives and the semesters when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- EAS 4700C Aerospace Design I
or EGN 4412C Interdisciplinary Design I 3 hrs
- EAS 4710C Aerospace Design II
or EGN 4413C Interdisciplinary Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficien-

cy exam) prior to graduation.

Graduation:

none

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required (B.S.A.E) 128 hrs

8. Shared B.S.A.E./M.S.A.E. or M.S.M.E. 10-12 hrs

Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Mechanical, Materials, and Aerospace Engineering department for a list of acceptable courses.

9. Areas of Study M.S.A.E. or M.S.M.E. 18-20 hrs

Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

Computer-Aided Mechanical Engineering Track

Mechanical Systems Track

Miniature Engineering Systems Track

Professional Track

Space Systems Design and Engineering Track

Thermofluid Aerodynamic Systems Design and Engineering Track

Thermofluids Track

Total Semester hours (B.S. A.E./M.S.A.E. or M.S.M.E.) 146-148 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSAE or MSME will be awarded on completion of the total program of study.

The following will be waived for this joint degree program

- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking graduate courses must be within nine hours of graduation
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

COMMUNICATION SCIENCES AND DISORDERS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. and M.A.)

College Of Health and Public Affairs

Department of Communication Sciences and Disorders

HPA II, Suite 101, 407-823-4798,

Bachelor's program E-mail: comdisug@mail.ucf.edu;

Master's program E-mail: comdisma@mail.ucf.edu

<http://www.cohpa.ucf.edu/comdis/>

Purpose of this program - This program allows highly qualified undergraduate majors in communication sciences and disorders to enroll in 18 credit hours of graduate-level courses while completing the bachelor's degree. This enables full-time students to achieve a master's degree in one to two fewer semesters.

Accelerated Undergraduate-Graduate Programs

Admission requirements

- Completion of the junior year of course work in communication sciences and disorders.
- 3.5 GPA or better in courses in the major.
- 1000 on the combined verbal and quantitative sections of the Graduate Record Examination and a score of at least 500 on the verbal section.
- Completion of a graduate application, including three letters of recommendation from faculty in the department, and a letter of intent which indicates reasons for desiring entrance into the accelerated program, personal strengths and how they have been demonstrated, and future goals.
- Students who achieve a "B" or better for all 18 credit hours of graduate course work will be formally admitted into the master's program in communication sciences and disorders following receipt of the bachelor's degree.

SPA 6413	School-Aged Language Disorders	3 hrs
SPA 6410	Aphasia and Related Disorders	3 hrs
SPA 6204	Articulation/Phonological Disorders	3 hrs
SPA 6805	Research in Communication Disorders	3 hrs
<i>or</i>		
SPA 5473	Multicultural Aspects of Communication Disorders and Differences	
SPA 6505	Entry-Level Clinical Practicum	3 hrs

Degree Requirements

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
Prefer MGF 1106 Finite Math	
Select STA 2014C <i>or</i> STA 2023	
D. Social Foundations	6 hrs
Select PSY 2012 Gen Psych	
Select one of the listed choices (ECO 2013, ECO 2023), <i>or</i> (POS 2041)	
E. Science Foundations	6 hrs
Prefer BSC 1005 General Biology	
Select one biological and one physical science	

2. Common Program Prerequisites none

3. Core Requirements (48-51 hrs)

DEP 2004	Developmental Psychology	3 hrs
SPA 3471	Communication Disorders in Literature and Media	3 hrs
SPA 3101	Physiological Bases of Speech and Hearing	3 hrs
SPA 3112	Basic Phonetics	3 hrs
SPA 3112L	Basic Phonetics Lab	1 hr
LIN 3716	Language Development: Birth Through 8 Years	3 hrs
SPA 3011	Speech Science I: Speech Production	3 hrs
SPA 3011L	Speech Production Lab	1 hr
LIN 3717	Language Development: 9-18 Years	3 hrs
SPA 3104	Neural Bases of Communication	3 hrs
SPA 3123	Speech Science II: Speech Perception	3 hrs
SPA 3123L	Speech Perception Lab	1 hr
SPA 4032	Audiology	3 hrs
LIN 4711	Language Analysis	3 hrs
LIN 4711L	Language Analysis Lab	1 hr
SPA 4321	Aural Habilitation: Rehabilitation	3 hrs
SPA 4478	Multicultural Aspects of Communication Disorders and Differences	3 hrs*
EAB 3703	Principles of Behavior Modification <i>or</i>	3 hrs
EEX 4601	Introduction to Behavior Management <i>or</i>	
EEC 4604	Guidance of Young Children <i>or</i>	
EDF 3303	Learning Environments and Guidance for Young Children <i>or</i>	
SPA 3472	Guidance of Young Children With Communication Disorders	
SPA 4056C	Clinical Methods in Communication Disorders	5 hrs

4. Statistics Requirement (3-6 hrs)

Students have two options for completing this requirement:

Option 1:		
STA 2023	Statistical Methods I GEP and	3 hrs
STA 4163	Statistical Methods II <i>or</i>	3 hrs
Option 2:		
STA 2014C	Principles of Statistics (GEP) <i>or</i>	3 hrs
STA 2023	Statistical Methods I and	
SPA 4803	Research in Communication Disorders	3 hrs*

5. Electives (6 hrs min)

B.A. Option

Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.

B.S. Option

Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

6. Shared Bachelor's and Master's Courses (18 hrs)

SPA 6404	Preschool Language Disorders	3 hrs
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7. Foreign Language Requirements

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. American Sign Language (ASL) can be used to fulfill the foreign language admission requirement.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL I, II, and III can be used to fulfill this requirement.

8. Departmental Exit Requirements

- A minimum grade of "B" in all graduate courses.
- A minimum GPA of 3.0 in the courses used to satisfy the major.
- A passing score on the Communication Sciences and Disorders Undergraduate Competency Examination.

9. University Minimum Exit Requirements (120 hrs)

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

10. Courses taken toward Master's Degree

*In the Accelerated Program, students may elect to enroll in either SPA 5473, which replaces SPA 4478, or SPA 6805, which replaces SPA 4803.

Related Programs: Health Services Administration, Physical Therapy, Psychology, Social Work, Exceptional Student Education, Early Childhood Education

Related Minors: American Sign Language, Exceptional Education, Early Childhood Education, Aging Studies, Health Services Administration, Interpersonal Communication, Linguistics, Psychology

Transfer Notes:

- "D" (1.0) grades are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students may take STA 2014C or STA 2023 to fulfill the first part of the statistics requirement

COMPUTER ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.Cp.E./M.S.Cp.E.)

**College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corporation Engineering Ctr., Rm 246,
407-823-2787; Fax: 407-823-5419,
<http://www.eecs.ucf.edu>**

Admission Guidelines

- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 64 credit hours
- Completion of no more than 96 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year

Accelerated Undergraduate-Graduate Programs

- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)

(See Computer Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Computer Engineering major in this catalog for the CPP requirements)

3. Courses Required for the Computer Engineering Core (14 hrs)

(See Computer Engineering major in this catalog for a listing of Electrical Engineering core requirements)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements.

4. Courses Required for the Major (45 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801	Intro to Computer Engineering	3 hrs
EEL 4767C	Computer System Design I	4 hrs
EEL 4768C	Computer System Design II	4 hrs
EEL 4781	Computer Comm Networks	3 hrs
EEL 4851C	Engineering Data Structures	4 hrs
EEL 4882	Engineering System Software	3 hrs
EEL 4884C	Engineering Software Design	4 hrs

5. Approved Technical Electives (6 hrs)

Technical electives should be taken at the 5000 or 6000 level and are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required (B.S.Cp.E.) 128 hrs

9. Shared B.S.Cp.E./M.S.Cp.E. 6 hrs

Up to 6 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 6 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Electrical and Computer Engineering department for a list of acceptable courses.

10. Areas of Study M.S.Cp.E.

24 hrs

Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of year option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

Computer Architecture Track

Digital Systems Track

Intelligent Systems Track

Software Engineering Track

Total Semester hours (B.S.Cp.E./M.S.Cp.E.)

152 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The M.S.Cp.E. will be awarded on completion of the total program of study.

The following will be waived for this joint degree program

- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking graduate courses must be within nine hours of graduation
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

COMPUTER SCIENCE ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S./M.S.)

**College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corporation Engineering Ctr., Rm 246,
407-823-2787; Fax: 407-823-5419**

<http://www.eecs.ucf.edu>

Contact: Dr. Ali Orooji, E-mail: orooji@cs.ucf.edu;
Charlese Hilton-Brown, E-mail: chilton@mail.ucf.edu

Admission Guidelines

- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 60 credit hours
- Completion of no more than 90 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year for continuation in the program
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+3hrs)

(See Computer Science major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (15 hrs)

(See Computer Science major in this catalog for the CPP requirements)

3. Basic Core Requirements (25 hrs)

COP 3330	Intro to OO Programming	3 hrs
COP 3502C	Computer Science I	3 hrs
COP 3503C	Computer Science II	4 hrs
STA 2023	Statistical Methods I	GEP
ENC 3241	Technical Report Writing	3 hrs
CDA 3103	Computer Organization	3 hrs
COT 3100C	Intro to Discrete Structures	3 hrs
PHI 3626	Ethics in Science and Technology	3 hrs
COP 3402	Systems Software	3 hrs
COT 3960	Foundation Exam (PR:COT 3100C & COP 3502C)	0 hrs

4. Advanced Core (17 hrs)

Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.

Accelerated Undergraduate-Graduate Programs

COP 4331	Processes for OO Software Development	4 hrs
CDA 4150C	Comp Architecture	4 hrs
COT 4210	Discrete Comp Structures	3 hrs
COP 4020	Programming Languages I	3 hrs
COP 4600	Operating Systems	3 hrs

5. Restricted Electives (21 hrs)

- 4000-5000 level Computer Science courses that must include COT 4810 (Topics in Computer Science), CDA 5106 (Comp Architecture), COT 5405 (Analysis of Alg) and an additional 4000 level and 5000 level restricted elective. Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internship or cooperative education credits are allowed. Approved IT courses offered by Computer Science may also be used toward this requirement (3 credits).
- 4000-5000 level mathematics or statistics 6 hrs courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education hours are allowed.

6. School Exit Requirements

- Complete an exit survey
- Computer Competency met by completion of major

7. Foreign Language Requirements (0-4 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: Proficiency exam in a second language, one semester of college level Foreign Language, or 3 credits of multicultural courses approved by Computer Science.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required (B.S.) 120 hrs

9. Shared B.S./M.S. 12 hrs

Up to 12 credit hours of approved 5000 or 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either restricted elective or course requirements for the major. Contact the Graduate Coordinator in the Computer Science department for a list of acceptable courses.

10. Areas of Study M.S. 18 hrs

Students must complete all requirements within the masters program that they are admitted to. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

Total Semester hours (B.S./M.S.) 138 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MS will be awarded on completion of the total program of study.

The following will be waived for this joint degree program

- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking graduate courses must be within nine hours of graduation
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

ECONOMICS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./M.S.)

College of Business Administration

Department of Economics, BA2 305, 407-823-3266

<http://www.bus.ucf.edu/economics>

Major Advisor: R. Pennington, BA2 303B, 407-823-2640,

E-mail: robertp@mail.ucf.edu

This program is designed for highly qualified majors in Economics who would like to earn undergraduate and graduate degrees in five rather than six years of full-time course work. The program provides students with specialized training in economics within a broad liberal arts education. A minor from several other colleges can be selected according to the student's personal interests and career goals.

Admission Guidelines

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites
- For admission to graduate courses, students must achieve a minimum 3.25 GPA after completion of 80 credit hours and meet the UCF graduate admission requirements as described in the Graduate Catalog.

Degree Requirements

1. UCF General Education Program (36 hrs)

A. Communication Foundations	9 hrs
Required: SPC 1600	
B. Cultural and Historical Foundations	9 hrs
C. Mathematical Foundations	
Select MAC 2233 <i>or</i> 2311 Calculus	3 hrs
Select STA 2023 Statistical Methods I	3 hrs
D. Social Foundations	
Select ECO 2013 Principles of Macroeconomics <i>or</i> ECO 2023 Principles of Microeconomics	3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000	3 hrs
E. Science Foundation	6 hrs

2. Common Program Prerequisites (3 hrs)

ECO 2013*	Principles of Macroeconomics
ECO 2023*	Principles of Microeconomics

*See Transfer Notes for possible substitutions

3. Required Undergraduate Major Courses (16 hrs)

ECO 3101	Intermediate Microeconomics	3 hrs
ECO 3203	Intermediate Macroeconomics	3 hrs
*ECO 3401	Quantitative Business Tools I	3 hrs
**ECO 3411	Quantitative Business Tools II	4 hrs
ECO 4451	Research Methods in Economics	3 hrs

*At UCF, students who have completed MAC 2233 (or any Calculus 1 & 2 sequence) and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

**Students in the BA/MS program are encouraged to select MAC 2311, 2312 and 2313 along with STA 4321 and 4322 as substitutes for ECO 3401 and ECO 3411.

4. Restricted Elective (3 hrs)

Select any other 3000-4000 level economics course.

5. Courses shared BA/MS (15 hrs)

ECO 6403	Mathematical Economics	3 hrs
ECO 6118	Microeconomic Theory I	3 hrs
ECO 6206	Macroeconomic Theory I	3 hrs
ECO 6424	Econometrics I	3 hrs
ECO 6XXX	Economics Elective	3 hrs

*15 hours counts towards both BA and MS

6. Required Minor (18 hrs)

Completion of a minor in one of the following: Computer Science, Environmental Studies, History, Mathematics, Statistics, Political Science, Psychology, Sociology or Public Administration. Other minors may be selected with prior approval of the Economics Undergraduate Advisor.

7. Program Exit Requirements

- A minimum grade of 3.0 is required for all graduate courses.
- A minimum GPA of 2.5 is required for all courses taken in the major and minor.
- Computer Competence is met by Research Methods course.

Accelerated Undergraduate-Graduate Programs

8. Foreign Language (0-8 hrs)

Admission: Met by graduate requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

10. University Minimum Exit Requirements - B.A.

- 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credit permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required (B.A.) 120 hrs

11. Courses taken toward MS (9 hrs)

Six to nine additional hours of 6000 level economics electives.

A maximum of three hours of an approved non-economic elective may substitute for an economics elective. Select from disciplines such as mathematics, statistics, public administration, health sciences, political science, legal studies, computer science, and environmental engineering.

12. End of Program Option: (6 hrs)

All candidates for the M.S. in Economics degree must complete an end-of-program option. This requirement can be met by any of the following two options: 1) Thesis option or 2) Course work option (see the Graduate Catalog for a detailed description of the options).

Total Semester Hours (BA/MS) 135 hrs

The baccalaureate degree will be awarded when program requirements for the BA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MS will be awarded on completion of the total program of study.

The following will be waived for this joint degree program:

- The limit of nine hours to be shared between undergraduate and graduate programs
- Undergraduate students taking 6000 level courses must be within nine hours of graduation
- Undergraduate students taking 6000 level courses must not register for more than a total of twelve hours in that semester

Transfer Notes:

- Grades below "C" (2.0) are not accepted.
- Courses taken at community college do not substitute for Upper Division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- ECO 2013 and 2023 are prerequisites for all subsequent economics courses.

ELECTRICAL ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.E.E./M.S.E.E.)

**College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corporation Engineering Ctr., Rm 246,
407-823-2787; Fax: 407-823-5419
<http://www.ecs.ucf.edu>**

Admission Guidelines

- See Common Program Prerequisites

- Qualified students may apply after completion of a minimum of 64 credit hours
- Completion of no more than 96 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)

(See Electrical Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Electrical Engineering major in this catalog for the CPP requirements)

3. Courses Required for the Electrical Engineering Core (14 hrs)

(See Electrical Engineering major in this catalog for a listing of Electrical Engineering core requirements)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements.

4. Courses Required for the Major (41 hrs)

EEL 3004	Electrical Networks	3 hrs
EEL 3123C	Networks and Systems	4 hrs
EEL 3306	Semiconductor Devices I	3 hrs
EEL 3307C	Electronics I	4 hrs
EEL 3342C	Intro to Digital Circuits & Systems	3 hrs
EEL 3470	Electromagnetic Fields	3 hrs
EEL 3552C	Analog and Digital Communications	4 hrs
EEL 3657	Linear Control Systems	3 hrs
EEL 3801	Intro to Computer Engineering	3 hrs
EEL 4309C	Electronics II	4 hrs
EEL 4750	Digital Signal Processing Fund.	3 hrs
EEL 4767C	Computer System Design I	4 hrs

5. Approved Technical Electives (10 hrs)

Technical electives should be taken at the 5000 or 6000 level and are available in the BSEE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required (B.S.E.E.) 128 hrs

9. Shared B.S.E.E./M.S.E.E. 10-12 hrs

Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical

Accelerated Undergraduate-Graduate Programs

elective or course requirements for the major. Contact the Graduate Coordinator in the Electrical and Computer Engineering department for a list of acceptable courses.

10. Areas of Study M.S.E.E. 18-20 hrs

Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

Communication Track

Controls/Robotics Track

Digital Signal Processing Track

Electromagnetics Track

Electronics/Power Electronics Track

Electro-Optics Track

Solid State and Microelectronics Track

VLSI Design Track

Total Semester hours (B.S.E.E/M.S.E.E.) 146-148 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSEE will be awarded on completion of the total program of study.

The following will be waived for this joint degree program

- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking graduate courses must be within nine hours of graduation
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

HISTORY ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)

College of Arts and Humanities

CNH 551, 407-823-2224

<http://pegasus.cc.ucf.edu/~history>

Graduate program E-mail: hisgrad@ucf.edu

Undergraduate program E-mail: history@ucf.edu

Chair: TBA

Graduate Program Coordinator: Hong Zhang

Purpose of this degree - This program allows highly qualified undergraduate majors in history to begin taking graduate-level courses which will count towards their master's degree while completing their baccalaureate degree program. Participation will enable completion of a B.A. and M.A. in five instead of six years for students enrolled in full-time course work.

Admission Requirements

- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history course work
- A 3.5 GPA or better in history courses and a 3.25 overall GPA or better
- Graduate Record Exam (GRE) combined score of 1050 on both the verbal and quantitative sections of the exam and a score of at least 550 on the verbal section
- Completion of a graduate application, including an essay indicating reasons for desiring to complete the accelerated program, and three letters of recommendation from History Department faculty to be submitted to the History department
- Students will be formally admitted to the master's program following receipt of the BA degree

Undergraduate Degree Requirements

- 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 history course for

it to be counted toward the major

- Co-op credit cannot be used in this major
- Students should consult with the departmental graduate coordinator
- Departmental residency requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department. Students may substitute up to nine hours of 5000- or 6000- level courses to meet this requirement.
- Students must compile a portfolio of their written work in history completed inside and outside the classroom
- The B.A. will be awarded after completion of 36 hours of history classes
- The M.A. will be awarded upon completion of the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours (see history major requirements)

Graduate Degree Requirements

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students admitted to the accelerated program may take a 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 nine hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate courses
- Students need to pay fees at the graduate rate for the graduate courses they take
- Schedule for students enrolled full-time in the accelerated program:
 - Students complete nine hours of graduate-level courses their senior year
 - Students enroll in at least three hours of graduate-level course work the summer after they receive their B.A.
 - Students enroll in nine hours of graduate-level courses in both spring and fall semesters during their M.A. year
 - Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first MA year
 - Students complete and defend a master's thesis in six hours

Undergraduate Requirements

1. UCF General Education Program (36 hrs)
(See the History major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (0 hrs)
AMH 2010* U. S. History: 1492-1877
AMH 2020* U. S. History: 1877-Present
GEP
GEP

*See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)
HIS 4150 History & Historians
3 hrs

Select one sequence
EUH 2000, 2001 Western Civilization I & II
6 hrs
WOH 2012, 2022 World Civilization I & II

4. Upper Division Restricted Electives (21 hrs)
(Must be taken within the History Department)
Select six hours of approved history courses within three of the four geographic regions
18 hrs

1. Asian, African, and Middle Eastern
2. British and European
3. Latin American
4. U.S. and Canadian

Select three hours of approved history courses
Students may substitute nine hours of 5000- or 6000-level course work for 3000- or 4000-level courses
3 hrs

5. Departmental Exit Requirements

- Maintain a minimum GPA of 3.5 in upper division required courses attempted
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student's written work including, but not limited to, book critiques, in-class essay exams, and term papers
- Students must complete at least 18 of the required 36 history hours at UCF
- Computer competency met by completion of the major

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6. Foreign Language Requirements 0-8 hrs

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign language may be used to meet the requirement. Majors who are participating in the accelerated program should complete two years of a foreign language, preferably one functional in their area of historical interest. Students may take the department's M.A. foreign language proficiency exam immediately following the completion of their foreign language course work.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements - BA

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

Total Semester Hours Required 120 hrs

Overall History MA Requirements (36 hrs)*

*Nine hours of graduate work are earned in the senior year, in consultation with the history graduate coordinator.

1. Required Graduate Courses (12 hrs)

HIS 6159	Historiography	3 hrs
HIS 6905	Capstone Course	3 hrs
HIS 6971	Thesis	6 hrs

2. Courses in Area of Concentration (18 hrs)

Assumes that nine additional hours of graduate courses were taken during the senior year.

(Eastern Hemisphere: African, Asian, European, or Middle Eastern; or Western Hemisphere: Caribbean, North American, or South American)

3. Outside Area of Concentration in History (6 hrs)

4. Foreign Language Requirement

Students will also be expected to demonstrate reading competency in one foreign language. The foreign language competence must be completed one semester prior to the thesis defense.

5. Examination Requirements

Each candidate for the M.A. 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. 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.

Minimum Hours Required for M.A. - 36 Semester Hours
(nine hours of which also count toward the B.A. degree)

Related Programs: Humanities

Related Minors: African-American Studies, American Studies, Asian Studies, History, Humanities, Judaic Studies, Latin American Area Studies, Middle Eastern Studies, Women's Studies

Transfer Notes:

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

INDUSTRIAL ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.I.E./M.S.I.E.)

**College of Engineering and Computer Science
Industrial Engineering and Management Systems
Department**

ENG2 311, 407-823-2204; Fax: 407-823-3413

<http://www.iems.ucf.edu>

Admission Guidelines

- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 60 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the junior year
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)

(See Industrial Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Industrial Engineering major in this catalog for the CPP requirements)

3. Courses Required for the Industrial Engineering Core (22 hrs)

(See Industrial Engineering major in this catalog for a listing of Industrial Engineering core requirements)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do **not** satisfy major requirements.

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
COP 3223	Introduction to C Programming	3 hrs
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3358	Thermo-Fluids-Heat Transfer	3 hrs
or EGN 3343	Thermodynamics	
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engnrng	3 hrs

4. Courses Required for the Major (40 hrs)

The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

EGN 3613	Engineering Economic Analysis	2 hrs
EIN 5108	Environment of Technical Organizations	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EIN 3000	Introduction to IE & MS	2 hrs
EIN 3314C	Work Measurement & Design	3 hrs
EIN 3354	Principles of Cost Engineering	3 hrs
ESI 4628C	IE Applications of Computers	3 hrs
EIN 4243C	Human Engineering	3 hrs
EIN 4333C	Industrial Control Systems	3 hrs
EIN 4364C	Industrial Planning & Design	3 hrs
EIN 4391C	Manufacturing Engineering	3 hrs
ESI 4221	Empirical Methods for IE	3 hrs
ESI 4234	Quality Engineering	3 hrs
ESI 5316	Operations Research	3 hrs
ESI 5531	Discrete Simulation	3 hrs

5. Approved Technical Electives (3 hrs)

Technical electives should be taken at the 5000 or 6000 level and are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)

- EIN 4516C Systems Analysis & Design 3 hrs
- EIN 4891C IE Senior Design Project 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

Accelerated Undergraduate-Graduate Programs

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required (B.S.I.E.) 128 hrs

9. Shared B.S.I.E./M.S.I.E. 12 hrs

Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Industrial Engineering and Management Systems department for a list of acceptable courses.

10. Areas of Study M.S.I.E. 18 hrs

Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

Total Semester hours (B.S.I.E./M.S.I.E.) 146 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSIE will be awarded on completion of the total program of study.

The following will be waived for this joint degree program

- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking graduate courses must be within nine hours of graduation
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

MECHANICAL ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.M.E./M.S.M.E., M.S.M.S.E., or M.S.A.E.)

College of Engineering and Computer Science
Mechanical, Materials, and Aerospace Engineering Department

ENGR 307, 407-823-2416; Fax: 407-823-0208

<http://www.mmae.ucf.edu>

Admission Guidelines

- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 64 credit hours
- Completion of no more than 96 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)

(See Mechanical Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP's) (19 hrs)

(See Mechanical Engineering major in this catalog for the CPP requirements)

3. Courses Required for the Major (65 hrs)

EGN 1006C	Intro to the Engineering Profession	1 hr
EGN 1007C	Engineering Concepts & Methods	1 hr
EGN 3310	Engineering Analysis - Statics	3 hrs
EGN 3321	Engineering Analysis - Dynamics	3 hrs
EGN 3343	Thermodynamics	3 hrs
EGN 3365	Structure & Properties of Materials	3 hrs
EGN 3373	Principles of Electrical Engrng	3 hrs
STA 3032	Probability & Statistics for Engineers	GEP
EML 3034	Modeling Methods in MMAE	3 hrs
EML 3303C	Mechanical Engrng Measurements	3 hrs
EML 4312C	Feedback Control	3 hrs
EML 3500	Machine Design & Analysis	3 hrs
EGM 3601	Solid Mechanics	3 hrs
EML 3701	Fluid Mechanics I	3 hrs
EML 4142	Heat Transfer	3 hrs
EML 4220	Vibration Analysis	3 hrs
EML 5532C	Computer-Aided Design for Manufacture	3 hrs

Select one of the following three options for your senior year to complete your BSME. (21 hrs)

a. Energy Systems Option

EML 3101	Thermodynamics of Mechanical Sys	3 hrs
EML 4304C	Thermo-fluids Measurements	2 hrs
EML 4703	Fluid Mechanics II	3 hrs
EML 4145	Topics in Heat Transfer	1 hr
	Restricted Mechanical Systems Elective	3 hrs
	Approved Electives	9 hrs

b. Mechanical Systems Option

EML 4304C	Thermo-fluids Measurements	2 hrs
EML 3262C	Kinematics of Mechanisms	3 hrs
EGM 3601L	Solid Mechanics Lab	1 hr
	Restricted Energy Systems Elective	3 hrs
	Approved Electives	12 hrs

c. Materials Option

EMA 3012C	Experimental Techniques in Mech & Materials	3 hrs
EMA 4102	Thermodynamics and Kinetics of Materials	3 hrs
EMA 3124	Design and Selection of Materials	3 hrs
EMA 4223	Fundamentals of Mech. Behavior of Materials	3 hrs
	Approved Electives	9 hrs

4. Approved Technical Electives

Technical electives should be taken at the 5000 or 6000 level and are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their Department for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

- EML 4501C Engineering Design I 3 hrs
- or EGN 4412C Interdisciplinary Design I
- EML 4502C Engineering Design I 3 hrs
- or EGN 4413C Interdisciplinary Design II
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required (B.S.M.E.) 128 hrs

Accelerated Undergraduate-Graduate Programs

9. Shared B.S.M.E./M.S.M.E., M.S.M.S.E. or M.S.A.E. 12 hrs

Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Mechanical, Materials, and Aerospace Engineering department for a list of acceptable courses.

10. Areas of Study M.S.M.E., M.S.M.S.E., or M.S.A.E. 18 hrs

Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

Computer-Aided Mechanical Engineering Track

Mechanical Systems Track

Miniature Engineering Systems Track

Professional Track

Space Systems Design and Engineering Track

Thermofluid Aerodynamic Systems Design and Engineering Track

Thermofluids Track

Total Semester hours (B.S.M.E./M.S.M.E., M.S.M.S.E., or M.S.A.E.) 146 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSME, MSMSE, or MSAE will be awarded on completion of the total program of study.

The following will be waived for this joint degree program

- The limit of nine hours to be shared between undergraduate and graduate programs.
- Undergraduate students taking graduate courses must be within nine hours of graduation
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

MOLECULAR BIOLOGY AND MICROBIOLOGY - UCF/USF Accelerated Medical School Program (B.S.)

Burnett College of Biomedical Sciences

HPA2 335, 407-823-5932

<http://www.biomed.ucf.edu>

Dean: P.E. Kolattukudy

Students desiring admission to USF College of Medicine [USFCOM] through the accelerated program will meet all USFCOM admission requirements and obtain a B.S. in Molecular Biology and Microbiology after completion of the first year of the medical school curriculum.

Admission Requirements

Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT of 29. More information about the admission process can be found at <http://www.honors.ucf.edu> and in catalog: Burnett Honors College: UCF/USF Accelerated Medical School Program.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a departmental advisor and the Burnett Honors College advisor
- Students who decelerate will not have grades below C⁻ (1.75) in life science courses accepted

1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing total GEP hours to more than 36.)

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| Select ENC 1101H Honors Fr Composition I | |
| Select ENC 1102H Honors Fr Composition II | |
| Prefer SPC1016 H Honors Fund. Tech Presentations | |

- | | |
|---|-------|
| B. Cultural Historical Foundations | 9 hrs |
| C. Mathematical Foundations | |
| Select MAC 2311 | 4 hrs |
| Select STA 2023 | 3 hrs |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | |
| Select BSC 2010C Biology I | 4 hrs |
| Select CHM 2045C Chemistry Fundamentals I | 4 hrs |

2. Common Program Prerequisites (16 hrs)

- | | |
|--|------------|
| BSC 2010C Biology I | GEP |
| BSC 2011C* Biology II | 4 hrs |
| CHM 2045C**, 2046, Chemistry Fundamentals I, II, + Lab 2046L | GEP, 4 hrs |
| CHM 2210, 2211, Organic Chemistry I, II, + Lab 2211L | 8 hrs |
| MAC 2311 Calculus with Analytical Geometry I | GEP |

3. Core Requirements* (36 hrs)

- | | | |
|-------------------------------------|-------------------------------------|-------|
| Life Sciences | | |
| MCB 3020C | General Microbiology | 5 hrs |
| MCB 4912 | Undergraduate Research | 3 hrs |
| MCB 4941 | Internship Clinical Experience | 1 hr |
| PCB 4239 | Molecular Immunology | 3 hrs |
| PCB 3233L | Immunology Lab | 1 hr |
| PCB 3522, 4524 | Molecular Biology I, II | 6 hrs |
| BSC 3403C | Quantitative Biological Methods | 4 hrs |
| SLS 2311C | Selected Medical Careers | 2 hrs |
| Chemistry | | |
| BCH 4053 | Biochemistry I | 3 hrs |
| Math Calculus and Statistics | | |
| MAC 2311 | Calculus with Analytical Geometry I | GEP |
| STA 2023 | Statistical Methods I | GEP |

- | | | |
|--------------------|--------------------------------------|-------|
| Physics | | |
| PHY 2053C, 2054C | College Physics I, II | 8 hrs |
| or | | |
| PHY 2048, PHY 2049 | Physics for Scientists and Engineers | |

*May be substituted by BSC 3403C

**Or CHM 2040C, 2041C

4. Upper Division Restricted Electives (8 hrs)**

Five restricted electives satisfied by first year medical school courses.

- | | | |
|-----------|------------------|-------|
| PCB 3703C | Human Physiology | 4 hrs |
| ZOO 3733C | Human Anatomy | 4 hrs |

5. Additional USF/UCF Requirements (7 hrs)

- | | | |
|------------------|--|-------|
| IDH 1921H | Honors Symposium | 1 hr |
| ENC3241/ENC3241H | Writing for the Tech Professional | 3 hrs |
| PHI 4633H or | Honors Ethics and Biological Science | 3 hrs |
| PAF 3753H | Honors Ethical Issues in Health & Public Affairs | |

106 total hrs

*Students must select at least two honors sections of upper division core requirements or restricted electives, and a total of four lower division courses in honors.

**Students decelerating to the 4 year B.S. program must take the following additional courses:

- | | | |
|--|----------------------|--------|
| MCB 4414 | Microbial Metabolism | 3 hrs |
| 4 additional Upper Division Restricted Electives listed under Molecular Biology and P20Microbiology B.S. (minimum) | | 11 hrs |

120 total hrs

5. Departmental Exit Requirements

To be eligible for a major in Molecular Biology and Microbiology:

- For decelerated program, the student must complete all course work in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- For accelerated program the degree is awarded after successful completion of first year USF Medical School program.

6. Electives: none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed at UCF and/or USF

Accelerated Undergraduate-Graduate Programs

Total Semester Hours Required **120 hrs**

For accelerated program, 14 credit hours will be from completion of USF College of Medicine first year courses.

Related Programs: Biology, Interdisciplinary Studies

Related Minors: Biology, Chemistry

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall	15 hrs	Spring	16 hrs
ENC 1101H	3	ENC 1102H	3
PSY 2012H <i>or</i> SYG 2000	3	STA 2023	3
<i>or</i> ANT 2000H		CHM 2046	3
CHM 2045C	4	CHM 2046L	1
BSC 2010C	4	MAC 2311	4
IDH 1921	1	SLS 2311C	2
Summer	8 hrs		
PCB 3703C	4		
ZOO 3733C	4		

Sophomore Year

Fall	16 hrs	Spring	16 hrs
CHM 2210	3	CHM 2211	3
MCB3020C	5	CHM 2211L	2
PHI 4633H <i>or</i> PAF 3753H	3	PHY 2054C <i>or</i> PHY 2049,2049L	4
PHY 2053C <i>or</i> PHY 2048,248L	4	BSC 3403C	4
MCB 4941	1	SPC 1016H	3
Summer	0 hrs		
MCAT			
Prep Exam			

Junior Year

Fall	16 hrs	Spring	16 hrs
PCB 3522	3	PCB 4524	3
BCH 4053	3	PCB 4239, 3233L	4
ENC 3241/ENC 3241H	3	Cultural/Historical	3
BSC 2011C	4	ECO 2013 <i>or</i> POS 2041	3
Cultural/Historical	3	Cultural/Historical	3
Summer	3 hrs		
MCB 4912	3		

NURSING ACCELERATED SECOND DEGREE

C. BACHELOR OF SCIENCE IN NURSING

(BSN) OPTION

(For individuals who are not Registered Nurses but who hold a baccalaureate or higher degree from a regionally accredited college or university)

College of Nursing, HPA 220, 407-823-2744

E-mail: ucfnurse@mail.ucf.edu

Dean: Jean Leuner; Associate Dean Undergraduate: Linda Hennig; Undergraduate Coordinator: Patricia Leli

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program.

- Separate application to the limited access accelerated second degree bachelor of science in nursing (BSN) option must be made directly to the College of Nursing prior to January 15 of the year admission is sought
- Application to the University must also be submitted by the program deadline
- Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.
- Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the Registrar's Office. These students complete the "Readmission Application" form
- Students must receive a baccalaureate or higher degree from a regionally accredited college or university prior to the start of the program
- Three biological science prerequisite courses must be completed

by the program application deadline. Five of the nine program prerequisites must be completed by the program application deadline.

- All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of "C" (2.0) or better
- All applicants must complete an accelerated second degree program interview in association with a mandatory information session.
- Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX-RN). The program is accredited by the National League for Nursing and the Commission of Collegiate Nursing Education and approved by the Florida State Board of Nursing
- Nursing Accelerated Second Degree Program begins in Summer Semester.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements.
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program
- UCF Residency requirement: 30 hours (if applicable)
- Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the College of Nursing office

1. UCF General Education Program

NA

2. Common Program Prerequisites

(31 hrs)

PSY 2012	General Psychology	3 hrs
SYG 2000	Sociology	3 hrs
MCB 2004C	Health Microbiology (S***)	4 hrs
CHM 1032/L	General Chemistry and lab* (S***)	4 hrs
ZOO 3733C	Human Anatomy** (S***)	4 hrs
PCB 3703C	Human Physiology** (S**)	4 hrs
STA 2014C <i>or</i> 2023	Principles of Statistics	3 hrs
SOW 3104	Assessing Human Development or	
DEP 2004	Developmental Psychology	3 hrs
HUN 3011	Human Nutrition	3 hrs

*The first semester of a two semester general chemistry course does not meet requirement (ie CHM 1045, 2045, Chemistry I).

**May take Anatomy and Physiology sequence of six-eight total credits.

***S* indicates a biological science prerequisite.

3. Core Requirements

(56 hrs)

NUR 3065	Health Assessment	2 hrs
NUR 3065L	Health Assess Lab	1 hr
NUR 3825	Role of Professional Nurse	2 hrs
NUR 3028	Essentials of Nursing Practice	2 hrs
NUR 3028L	Essentials of Nursing Practice Lab	1 hr
NUR 3755L	Essentials of Nursing Practice Clinical	2 hrs
NUR 3634	Community Health Nursing	3 hrs
NUR 3634L	Community Health Nursing Clinical	2 hrs
NUR 3125	Pathophysiology for Nurses	3 hrs
NUR 3145	Pharmacology for Nurses	3 hrs
NUR 3225	Nursing Care of the Adult I	3 hrs
NUR 3225L	Nursing Care of the Adult I Clinical	2 hrs
NUR 3445	Nursing Care of Families	3 hrs
NUR 3445L	Nursing Care of Families Clinical	2 hrs
NUR 3167	Accelerated Nursing Research Seminar	1 hr*
NUR 4932 ST:	Nursing Care of the Adult II	3 hrs
NUR 4932L ST:	Nursing Care of the Adult II Clinical	3 hrs
NUR 4932 ST:	Psychiatric Mental Health Nursing	3 hrs
NUR 4932L ST:	Psychiatric Mental Health Nursing Clinical	2 hrs
NUR 4829	Transition to Professional Practice As a Leader	3 hrs
NUR 4257 ST:	Introduction to Critical Care	3 hrs
NUR 4932 ST:	Public Health Nursing	2 hrs
NUR 4932L ST:	Public Health Nursing Clinical	1 hr
NUR 4945L	Nursing Practicum	4 hrs
NUR 4XXXX	Nursing Elective	3 hrs**

Any variation from the above must be approved by the College of Nursing.

*Students without a research course on transcript must take NUR 3165

**Students may petition to waive elective requirement.

4. Upper Division Restricted Electives

(3 hrs)

Nursing Elective: Students may petition the Undergraduate Admission, Progression and Graduation committee to waive elective requirement

Accelerated Undergraduate-Graduate Programs

5. Department Continuation and Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- UCF GPA of 2.5 or above
- College of Nursing GPA of 2.5 or above

6. Electives

none

7. Foreign Language requirements

Admission:
Graduation:

none
none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF

Total Semester Hours Required for 2nd Degree BSN **56 hrs**

Related Programs

Health Services Administration, Social Work, all health programs

Related Minors

Aging Studies, Psychology, Health Sciences, Health Services Administration

Transfer Notes:

Examples of Community College Equivalent Courses for

Prerequisites

General Psychology (PSY X012) or any General Psychology course	3
General Sociology (SYG 2000) or any Intro to Sociology course	3
Statistics (STA 2014C or 2023) or any Statistics course	3
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)* (S**)	4
Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086) (S**)	6-8
General Microbiology (MCB 3020C) (MCB X010C) w/lab or any Microbiology course w/lab (S**)	4
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course	3
Human Nutrition with Therapeutic Nutrition course	3

*The first semester of a two semester general chemistry course does not meet requirement (ie CHM 1045, 2045, Chemistry I).

**S* indicates a biological science prerequisite.

Note: A grade of "C" (2.0) or better is required in all prerequisite courses.

Honors

University Honors and Honors in the Major Available

Tentative Course Schedule

First Semester

Summer	15 hrs	Fall	16 hrs
NUR 3825	2	NUR 3125	3
NUR 3065	2	NUR 3145	3
NUR 3065L	1	NUR 3225	3
NUR 3028	2	NUR 3225L	2
NUR 3028L	1	NUR 3445	3
NUR 3755L	2	NUR 3445L	2
NUR 3634	3		
NUR 3634L	2		

Spring	12-14 hrs	Summer	13-16 hrs
NUR 3932 ST	3	NUR 4829	3
NUR 3932L ST	3	NUR 4257 ST	3
NUR 3932 ST	3	NUR 4932 ST	2
NUR 3932L ST	2	NUR 4932L ST	1
NUR 3167	1	NUR 4945L	4
or *NUR 3165	3	**NUR 3XXX Elective	3

Other

*Students without a research course on transcript must take NUR 3165

**Students may petition to waive elective requirements.

NURSING (B.S.N.)

D. RN TO MSN OPTION

College of Nursing

**HPA 220, 407-823-2744, E-mail: ucfnurse@mail.ucf.edu
<http://www.cohpa.ucf.edu/nursing/>**

An Accelerated program for students who hold an RN license and meet general education requirements, pre-requisites, required GPA and GRE score.

Available for all tracks in the graduate program. Nursing Leadership and Management, Family Nurse Practitioner, Adult Nurse Practitioner, Pediatric Nurse Practitioner, Clinical Nurse Leader, Nurse Educator, and Clinical Nurse Specialist. (See UCF *Graduate Catalog* for current offerings.) Nine (9) to twelve (12) graduate credit hours may be applied toward meeting requirements of both BSN and MSN programs.

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the RN-MSN program. **Separate application** to this *limited access program* must be made. Contact the College of Nursing or visit our website for application materials. All applicants must meet the following criteria:

- Graduate of a state-approved or accredited associate degree or diploma nursing program
- Licensure as a Registered Nurse (RN)
- Completion of UCF general education requirements or an AA degree from a Florida community college, including CLAST (or exempt)
- Completion of prerequisites for the RN-BSN nursing program
- Minimum cumulative GPA of 3.0. (all prior college coursework)
- A minimum combined GRE score of 900 on the verbal/quantitative exams.
- Admitted to UCF undergraduate program
- Two professional references addressing qualifications and ability to succeed in graduate school
- Resume
- Letter of Intent/Goal statement

Interim Requirements:

Maintain a Nursing GPA of 3.0

Admission Requirements for Graduate Nursing Phase: (To be met one semester before the BSN is awarded)

- Application to and acceptance by the UCF Office of Graduate Studies (see Graduate Studies website for deadlines)
- Completion of all UCF College of Nursing coursework to date with a minimum GPA of 3.0
- An updated resume

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
- UCF Residency Requirement: 30 hours
- The BSN is awarded after completion of 120 hours including 30 hours of specified program requirements
- The MSN is awarded after program completion
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

An individualized plan of study is developed for each student admitted to the RN to MSN option.

1. UCF General Education Program

(36+1 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1600C	9 hrs
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs

Accelerated Undergraduate-Graduate Programs

1. Prefer MAC 1105
2. Select STA 2014C
- D. Social Foundations 6 hrs
1. Select SYG 2000 *or* PSY 2012*
2. Select one: ECO 2013, *or* ECO 2023, *or* POS 2041
- E. Science Foundations** 7 hrs
Select BSC 2010C (4)
Select CHM 1032 (3)

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program; however the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites 21 hrs

PSY 2012	General Psychology**	GEP
SYG 2000	Sociology**	3 hrs
MCB 2004C	Health Microbiology	4 hrs
CHM 1032	General Chemistry **	GEP
CHM 1032L	General Chemistry Lab	GEP
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology	4 hrs
STA 2014C <i>or</i> 2023	Principles of Statistics**	GEP
SOW3104	Assessing Human Development	3 hrs
<i>or</i> DEP 2004	Developmental Psychology	
HUN 3011	Human Nutrition	3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.

**Also meets General Education Requirements;

Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core Requirements (30 hrs)

UCF Upper Division Requirements

NUR 3805	Dimensions of Professional Nursing Practice	3 hrs
NUR 3165	Nursing Research	3 hrs
NUR 3634	Community Health Nursing	3 hrs
NUR 4837	Health Care Issues, Policy, & Econ	3 hrs
NUR 4XXX	Public Health Nursing	2 hrs
NUR 4XXXL	Practicum in Community and Public Health Nursing for RNs	4 hrs

Students in the Nurse Educator/Clinical Nurse Leader, and Nurse Practitioner tracks take the following (12 credits)
(nine graduate credits also applied to MSN)

NGR 5003		2 cr.
NGR 5004L		1 cr.
NGR 5638		3 cr.
NGR 5141		3 cr.
NGR 4XXX	Leadership, Management and Role Development	3 cr.

Students in the Clinical Nurse Specialist Track take the following (12 credits)

(twelve graduate credits also applied to MSN)

NGR 5003		2 cr.
NGR 5004L		1 cr.
NGR 5720		3 cr.
NGR 5141		3 cr.
NGR 5800		3 cr.

Students in the Nursing Leadership & Management Track take the following (12 credits)
(nine graduate credits also applied to MSN)

NGR 5720		3 cr.
NGR 5781		3 cr.
NGR 5800		3 cr.
NUR 3065		2 cr.
NUR 3065L		1 cr.

Upper Division Credit * (26 hrs)

NUR 3028	Essentials of Nursing Practice	2 cr.
NUR 3028L	Essentials of Nursing Practice Lab	1 cr.
NUR 3755L	Essentials of Nursing Practice Clinical	3 cr.
NUR 3225	Nursing Care of the Adult I	3 cr.
NUR 3325 L	Nursing Care of the Adult I Clinical	2 cr.
NUR 3445	Nursing Care of Families	3 cr.
NUR 3445L	Nursing Care of Families Clinical	2 cr.
NUR XXXX	Nursing Care of the Adult II	3 cr.
NUR XXXXL	Nursing Care of the Adult II Clinical	3 cr.
NUR XXXX	Psychiatric Mental Health Nursing	3 cr.
NUR XXXX L	Psychiatric Mental Health Nursing Clinical	2 cr.

*May be met by validation

4. Upper Division Restricted Elective none

5. Departmental Exit Requirements

Completion of all courses in major with a grade of "B" (3.0) or better

- Cumulative GPA of 2.5 or above
- College of Nursing GPA of 2.5 or above

6. Electives

Variable to meet degree requirements.

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam).

Graduation: none

8. University Minimum Exit Requirements

(For students exiting after earning BSN.)

- A 2.0 UCF GPA and 2.5 Nursing Major GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required BSN 120 hrs

Related Programs: Health Services Administration, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

STATEWIDE ARTICULATED A.S. TO B.S. PROGRAMS

The University offers nine specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following eight programs: Applied Science, Criminal Justice Technology, Electronics Engineering Technology, Business Administration, Hospitality Management, Computer Engineering Technology - Network Specialization, Nursing, and Radiography. Students who wish to transfer to UCF under the provisions of the statewide articulated A.S. to B.S. programs must meet specific criteria:

1. Students must graduate with the specific program and new A.S. in Fall 2000 or later, (Fall 2003 or later for Criminal Justice or Computer Engineering Technology) from a Florida public community college.
2. Students who have graduated with an A.S. prior to Fall 2000 are not eligible to participate in these programs. The new community college A.S. programs have slightly different requirements. Students who do not have the new A.S. should complete their general education at the community college and then transfer into the appropriate non-A.S. to B.S. program at UCF.
3. Students may only transfer from the specific major to the specific major; e.g., Business Administration to General Business. One cannot, for example, transfer an A.S. in Business Administration to a B.S. in Accounting under this agreement.
4. Students should write on the front of their application for admission to UCF, "A.S. - B.A./B.S." designating their desire to participate in the articulation agreement.
5. UCF will allow students to complete the UCF required General Education courses at their community college while they are enrolled and working on their degree at UCF. However, students cannot be

transient in their last 30 hours at UCF.

6. Students with Associate in Applied Science (AAS) degrees are not eligible for participation in these programs unless they also have the appropriate A.S. degree.

Applicants who qualify for this program are not guaranteed admission to the limited access programs in Nursing and Radiologic Sciences or programs that require specific grades in particular courses for admission.

Students should consult with their community college advisor when pursuing one of these programs to make sure they have met all of the appropriate requirements for the degree, including the necessary General Education courses and common program prerequisites. Students are still required to complete all of the components of the Gordon Rule and CLAST prior to graduation from UCF. Students may be required to complete all common program prerequisites for these majors prior to enrollment in upper division course work. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted into these programs must meet the requirements as stated in the programs listed below. Students who change majors out of these programs must adopt the requirements of the most current catalog for the selected major, including the required UCF General Education Program.

Questions concerning the requirements of these majors should be referred to the appropriate academic department or the Director of Transfer Services, (407) 823-2231.

APPLIED SCIENCE (B.A.S.)

A.S. to B.A.S.

(Completion Program for individuals who have a statewide articulated A.S. from a Florida public community college)

Office of Undergraduate Studies

Regional Campuses Administrative Offices

12201 Research Parkway, Suite 101

407-823-4547

<http://www.regionalcampuses.ucf.edu/>

Program Coordinator: Judy Boyte, 407-317-7816

The Bachelor of Applied Science, available at selected sites, provides baccalaureate educational opportunities with a curriculum designed to develop competencies in organizational skills, management, and communication. Emphasis will also be placed on the development of skills in critical thinking, problem solving, and ethical decision-making.

Students are allowed to take lower level, general education classes at the campus in Orlando if necessary. If students wish to take an upper division course at the Orlando campus they should see a Regional Campuses' academic advisor. This will be allowed only on a very limited basis and under highly extenuating circumstances. If you have any questions regarding this policy or procedure, please contact the Director of Regional Campuses Advising at 407-823-4547.

Admission Requirements

Completion of an A.S. degree from a Florida public community college which included at least 15 hours of transferable general education courses. Other applicants will be given individual review.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students should maintain contact with an academic advisor.

1. UCF General Education Program (36 hrs)

Students will take General Education courses as needed to complete the university's 36 credit hour General Education requirement:

- | | |
|--|-------|
| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 6 hrs |
| D. Social Foundations | 6 hrs |

E. Science Foundations	6 hrs
------------------------	-------

2. Common Program Prerequisites

none

3. Required Core

(10-11 hrs)

BUL 3130	Legal & Ethical Environment for Business	4 hrs
or		
PLA 3013	Law and the Legal System	3 hrs
MAN 3025	Management of Organizations	4 hrs
ENC 3241	Writing for the Technical Professional	3 hrs
or		
ENC 3250	Professional Writing	3 hrs

4. Area of Concentration (Choose one)

All tracks are not available at all locations.

A. Supervision and Administration Track:

(20 hrs)

INP 3004	Industrial/Organizational Psychology	3 hrs
ISM 3011	Management Information Systems	4 hrs
MAR 3023	Marketing	4 hrs
GEB 3814	Essentials of Human Resource Management for Non-business majors	3 hrs
GEB 3815	Employee Training for Non-business Majors	3 hrs
ACG 3082	Accounting for Non-business majors	3 hrs

B. Industrial Operations Track:

(21 hrs)

ETI 3116	Applied Quality Assurance	3 hrs
ETI 3671	Technical Economics	3 hrs
ETI 4186	Applied Reliability	3 hrs
ETI 4635	Technical Administration	3 hrs
ETI 4640	Operations Management for Technologists	3 hrs
ETI 4448	Applied Project Management	3 hrs
CET 3010	Introduction to Information Technology	3 hrs

C. Criminal Justice Track:

(18 hrs)

CCJ 3024	Criminal Justice System	3 hrs
CCJ 3014	Crime in America	3 hrs
Choose two from the courses listed below:		6 hrs
CJL 3510	Prosecution and Adjudication (3 hrs)	
CJC 3010	The Corrections and Penology (3 hrs)	
CJE 4014	Police and Society (3 hrs)	
Six additional semester hours of CCJ, CJC, CJE, CJL, or CJT courses: Selected with the aid of an academic advisor		6 hrs

D. Legal Studies Track:

(18 hrs)

PLA 3013	Law and the Legal System	3 hrs
PLA 3104	Legal Research	3 hrs
Choose four from the courses listed below:		12 hrs
PLA 3155	Legal Writing (3 hrs)	
PLA 3201	Civil Practice and Procedure (3 hrs)	
PLA 3273	Law of Torts (3 hrs)	
PLA 3308	Criminal Procedure (3 hrs)	
PLA 4423	The Law of Contracts (3 hrs)	

Statewide Articulated A.S. To B.S. Programs

PLA 4700 Professional Ethics and Liability (3 hrs)

E. Hospitality Management Track: (18 hrs)

HFT 1000	Introduction to Hospitality Management	3 hrs
HFT 3540	Guest Services Management I	3 hrs
HFT 3263	Restaurant Management	3 hrs
HFT 3700	Tourism Management	3 hrs
6 semester hours of HFT courses selected with the aid of an academic advisor		6 hrs

F. Health Services Administration Track: (18 hrs)

HSA 3111	U.S. Health Care Systems	3 hrs
(HSA 3111 is a prerequisite class for all of the following classes)		
HSA 4201	Community Health Services	3 hrs
HSA 4180	Organization and Management for Health Agencies	3 hrs
HSA 4191	Health Care Automation	3 hrs
<i>PR: CGS 2100</i>		
HSC 4500	Epidemiology	3 hrs
<i>PR: STA 2014C or STA 2023</i>		
Choose One:		3 hrs
HSC 3640	Health Law <i>or</i>	
HSC 4653	Health Care Ethics <i>or</i>	
HSA 4109	Managed Care <i>or</i>	
HSA 4502	Risk Management <i>or</i>	
HIM 4506C	Quality Management <i>or</i>	
HSA 4702	Health Science Research Methods	

G. Information Technology Track: (21 hrs)

Strongly urged that students take STA 2023 within the general education program

CET 3010	Introduction to Information Technology	3 hrs
<i>PR: MAC 1105</i>		
CET 2364	System Applications in C	3 hrs
<i>PR: MAC 1105</i>		
CET 3752	Introduction to Telephony	3 hrs
CET 3383	System Analysis 1	3 hrs
CET 4427	Applied Database 1	3 hrs
CET 4505	Applied Operating Systems 1	3 hrs
ETI 4448	Applied Project Management	3 hrs

H. Early Childhood Education Track: (21 hrs)

EEC 3700	Social and Emotional Development of Young Children	3 hrs
RED 3310	Early Reading, Writing and Language Arts	3 hrs
EEC 4268	Curriculum Activities in Early Childhood	3 hrs
EEC 4604	Classroom Management and Guidance of Young Children	3 hrs
<i>PR: EEC 3700</i>		
EEX 4751	Parent Involvement	3 hrs
TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
EEX 3450	Young Children with Special Needs	3 hrs

5. Modern Language Requirement (0-8 hrs)

Admission Requirements

Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

Total Semester Hours Required 120 hrs

Transfer Notes.

- UCF will allow students to complete required UCF General Education courses at the community college while they are enrolled and working on their degree at UCF; however, students cannot be transient in their last 30 hours at UCF.
- Courses taken at community colleges do not substitute for upper division courses.
- All students seeking a baccalaureate degree from a State of Florida Institution are required to satisfy the CLAST requirement.

Transfer students with more than 60 semester hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first semester at UCF.

- Orientation and advising are two of the most valuable tools that a student can use when transferring to UCF. Students should take advantage of both

CRIMINAL JUSTICE (B.S.) A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs

HPA1 311, 407-823-2603

<http://www.cohpa.ucf.edu/crim.jus/>

E-mail: cjadvice@mail.ucf.edu

Undergraduate Program Coordinator: Dr. Mary Ann Eastep

Admission Requirements

Completion of a Statewide Articulated A.S. in Criminal Justice from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- The courses designated in section 1 below may be taken at a Florida Community College
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program (36 hrs)

Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:

- Communication Foundations
- Cultural Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundations

2. Common Program Prerequisites

Completed as part of the approved A.S. program

3. Core Requirements (18 hrs)

CCJ 3024	Criminal Justice System	3 hrs
CCJ 3014	Crime in America	3 hrs
CJL 3510	Prosecution and Adjudication	3 hrs
CJC 3010	Corrections and Penology	3 hrs
CJE 4014	Police and Society	3 hrs
CCJ 4701	Research Methods in Criminal Justice	3 hrs

4. Upper Division Restricted Electives (30 hrs)

- 27 additional semester hours of upper division CCJ course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internship or independent study credit.
- 3 additional semester hours of supporting courses to be selected with and approved by the student's advisor. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements

Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements

Admission: Two years of one foreign language in high

Statewide Articulated A.S. To B.S. Programs

school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required **130 hrs**

Related Programs: Legal Studies

Related Minors: Legal Studies, Public Administration, Psychology.

ELECTRICAL ENGINEERING TECHNOLOGY (BSEET) A.S. to B.S.E.E.T. CONCENTRATION

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science

Engineering Technology (ENT) Department

ENGR 207, 407-823-4749; Fax: 407-823-4746

<http://www.ent.ucf.edu>

Coordinator: Alireza Rahrooh, E-mail: rahrooh@pegasus.cc.ucf.edu

Admission Requirements

Completion of a Statewide Articulated A.S. in Electrical Engineering Technology from a Florida public community college which is composed of 68 hours of course work, including at least 22 hours of transferable General Education courses.

Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (14 hrs)

- A. Communication Foundations 3 hrs
- B. Cultural and Historical Foundations 3 hrs
- C. Mathematical Foundations 4 hrs
 - 1. Select MAC 2311 or MAC 2253
- D. Social Foundations (0 hrs)
- E. Science Foundations 4 hrs
 - 1. Select PHY 2048 and PHY 2048L or PHY 2053C

Note: See PHY component under Section 2.

2. Common Program Prerequisites (CPP) (4 hrs)

- (C or better grades are required in all courses)**
- MAC 2311 or MAC 2253 GEP
 - MAC 2312 or MAC 2254 or equivalent 4 hrs
 - PHY 2048 and PHY 2048L GEP
 - or PHY 2053C

3. Engineering Technology Core Requirements (22 hrs)

- (C or better grades are required in all courses.)**
- ETG 3541 Applied Mechanics 3 hrs
 - ETI 3671 Technical Economic Analysis 3 hrs
 - ETI 4448 Applied Project Management 3 hrs
 - ETI 3116 Engineering Quality Assurance 3 hrs
 - ENC 3241 Technical Report Writing 3 hrs
 - PHY 2049 and PHY 2048L or PHY 2054C 4 hrs
 - STA 2023 Statistical Methods I 3 hrs

4. Upper Level Required Courses (22 hrs)

- (C or better grades are required in all courses)**
- CET 3198C Digital Systems 3 hrs
 - CET 3503 Microcomputer Technology I 3 hrs
 - CET 4134C Microprocessor Electronics II 3 hrs
 - EET 3716 Network Analysis 3 hrs
 - EET 4158C Linear Integrated Circuits 3 hrs
 - EET 4548 Power Systems 3 hrs
 - EET 4732C Feedback Control Systems 4 hrs

5. Upper Level Technical Electives (5 hrs)

(C or better grades are required in all courses)

Select five hours from the following:

CET 3144C	Applied Microprocessor Technology	3 hrs
CET 4138C	Digital Programmable Devices	3 hrs
CET 4333	Computer Organization & Design	3 hrs
EET 4329C	Communication Systems	3 hrs
EET 4359C	Digital Communications	4 hrs

6. Departmental Exit Requirement (3 hrs)

- ETG 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits are permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: **134 hrs**

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an A.A. or with the General Education Program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- ENT Departmental Residency Requirements consist of at least 33 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Junior Year

Fall	13/14 hrs	Spring	16 hrs
MAC 2253 Applied Calc I or	3/4	PHY 2054C/2049 w/ lab	4
MAC 2311 Calc w/Anal Geom I		ETG 3541 Applied Mechanics	3
ETI 3671 Tech Economic Analysis	3	CET 3198C Digital Systems	3
SPC 1600 Oral Communications	3	ETI 4448 Applied Project Mngmt	3
PHY 2053C/2048 Physics I	4	EET 3716 Network Analysis	3
Summer		6 hrs	
ETI 3116 Appl Eng Quality Assur	3		
Cultural/Historical Foundation	3		

Senior Year

Fall	13 hrs	Spring	13 hrs
EET 4548 Power Systems	3	EET 4732C Feedback Control Sys	4
EET 4158C Linear Int Cir	3	STA 2023 Statistical Methods I	3
CET 3503 Microcomputer Tech 1	3	ETG 4950C Snr Design Project	3
MAC 2312, 2254 or MAP 3401	4	ENC 3241 Writing Tech Pros	3
Summer		9 hrs	
CET 4333 Comp Org & Design	3		
CET 4138C Digital Program Devices	3		
CET 4134C Microprocessor Elec II	3		

GENERAL BUSINESS (B.S.B.A.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. in business administration from a Florida public community college)

College of Business Administration

BA2 101, 407-823-2184

<http://www.bus.ucf.edu>

Faculty Advisor: Undergraduate Student Service, BA2 101, 407-823-2184

Admission Requirements

Statewide Articulated A.S. To B.S. Programs

Completion of a Statewide Articulated A.S. in Business Administration from a Florida public community college which is composed of 64 hours of course work, including at least 24 hours of transferable General Education courses.

Degree Requirements

1. UCF General Education Program (12 hrs)

Students will complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:

- A. Communication Foundations - Required SPC 1600
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundation

2. Common Program Prerequisites (18-21 hrs)

Must be completed with a "C" (2.0) or better.

ACG 2021	Principles of Financial Accounting	3 hrs
ACG 2071	Principles of Managerial Accounting	3 hrs
ECO 2013	Macroeconomics	3 hrs
ECO 2023	Microeconomics	3 hrs
*ECO 3401	Quantitative Business Tools I	3 hrs
CGS 2100C	Computer Fundamentals for Business	3 hrs

*At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)

First or subsequent semester in the College of Business

Administration:

GEB 3031	Cornerstone (Required in 1st or 2nd semester)	4 hrs
GEB 3356	Introduction to International Business	4 hrs
BUL 3130	Legal & Ethical Environments of Business	4 hrs
ECO 3411	Quantitative Business Tools II	4 hrs
FIN 3403	Business Finance	4 hrs
MAN 3025	Management of Organizations	4 hrs
ISM 3011	Essentials of Management Information Systems	4 hrs
MAR 3023	Marketing	4 hrs

Last Semester:

MAN 4720	Strategic Management	4 hrs
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4. Special college and/or department requirements:

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB. Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

5. Second Level Core (5 courses):

Students must take one course from each of the following areas: Economics (must take ECP 4703), Finance, Management, Management Information Systems (MIS), and Marketing. These five courses are restricted to the courses listed below:

Finance

FIN 3303	Financial Markets
FIN 3414	Intermediate Corporate Finance
FIN 3504	Investment Analysis

Management

MAN 3301	Management of Human Resources
MAN 4240	Organizations: Theory and Behavior
MAN 4441	Conflict Resolution and Negotiation
GEB 3113	How to Start a Business

Management Information Systems

ISM 3253	MIS Techniques
ISM 4153	Enterprise Information Systems
ISM 4154	Enterprise Application Development

Marketing

MAR 3613	Marketing Research & Analysis
MAR 3403	Sales Force Management
MAR 4841	Service Marketing
MAR 4156	International Marketing

Economics*

ECO 3223	Money and Banking
ECP 3203	Contemporary Labor Economics
ECP 4703	Managerial Economics

*ECP 4703 is required. ECP 3203 and ECO 3223 are restrictive electives only. With permission of Economic advisor, any other 3000 or 4000 level ECO, ECP, or ECS course may be substituted as an Economics restrictive elective. This substitution must be petitioned and have written approval.

6. 4000 Level Requirement:

At least two of the second level courses must be at the 4000 level.

7. A.S. Transfer Classes

Twelve credit hours taken under the A.S. to B.S. agreement will be counted toward the degree.

8. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)

Must be outside the College of Business

Total Semester Hours Required 132 hrs

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C"(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

Statewide Articulated A.S. To B.S. Programs

HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

Rosen College of Hospitality Management

9907 Universal Boulevard

Orlando, Florida 32819

407-903-8000

<http://www.hospitality.ucf.edu>

E-mail: hospitality@mail.ucf.edu

Dean: Abraham Pizam

Admission Requirements

Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements

1. UCF General Education Program (GEP) (18 hrs)

Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:

- A. Communication Foundations
- B. Cultural and Historical Foundations
- C. Mathematical Foundations
- D. Social Foundations
- E. Science Foundation

2. Common Program Prerequisites (3 hrs)

HFT 1000 Introduction to Hospitality Management 3 hrs

3. Hospitality Management Core (27 hrs)

CGS 2100CC	Computer Fundamentals of Business	
or STA 2023	Statistical Methods I	(GEP)
ECO 2013	Macroeconomics	
or ECO 2023	Microeconomics	(GEP)
MAC 1105	College Algebra	(GEP)
HFT 3540	Guest Services Management	3 hrs
HFT 3431	Hospitality Managerial Accounting	3 hrs
HFT 4295	Leadership and Strg Mgmt in Hospitality Industry	3 hrs
HFT 4286	Hospitality Communications	3 hrs
HFT 4462	Hospitality Industry Finance	3 hrs
HFT 4941	Internship II	1 hr
HFT 4944	Internship III	1 hr
HFT 3933	Distinguished Lectures in Hosp. Mgt.	1 hr

Select 3 of the following 4 courses to complete the core

HFT 3700	Tourism Management	3 hrs
HFT 3263	Restaurant Management	3 hrs
HFT 3273	Principles of Resort Time Sharing	3 hrs
HFT 4755	Theme Park and Attraction Mgmt	3 hrs

4. Special School Requirements:

- Grades of "C-" (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
- It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student's responsibility for dropping courses they do not intend to complete.
- Final exams will be given during Exam Week only.

5. Restricted Electives (15 hrs)

Generalist Track: Students must take 15 credit hours (five courses) of Hospitality Management courses in the Hospitality Management Specialized Tracks or the restrictive electives in other degree programs (see Restaurant and Food Service Management B.S. and/or Event Management B.S.) offered by the Rosen College. Please note: No more than 2 courses (6 credit hours) may be taken from any one track or degree program at the Rosen College of Hospitality Management to satisfy the restricted elective requirement.

OR

Specialized Tracks: Students must complete one of the six Hospitality Management Specialized Tracks offered by the Rosen College as outlined below to satisfy the restricted elective requirement.

SPECIALIZED TRACKS – Select one of the tracks below

A. Vacation Ownership Resort Management Track – 15 hrs

(5 Courses)		
HFT 4275	Development of Vacation Ownership Resorts	3 hrs
HFT 4274	Vacation Ownership Resort Management	3 hrs
HFT 4522	Vacation Ownership Resort Sales Tactics and Strategies	3 hrs
HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs

B. Theme Park and Attraction Mgmt Track – 15 hrs

(Choose 5 Courses from the following list)		
HFT 4786	Managing the Guest Experience in Theme Parks and Attractions	3 hrs
HFT 4759	Product Development in Theme Parks and Attractions	3 hrs
HFT 4758	Contemporary Issues in the Theme Park and Attraction Industry	3 hrs
HFT 4532	Managing the Employee Experience in Theme Parks and Attractions Industry	3 hrs
HFT 4787	Operational Issues in the Theme Park and Attraction Industry	3 hrs
HFT 4795	Entertainment Arts and Events	3 hrs
HFT 3784	Amusement Technology	3 hrs

C. Tourism Management Track – 15 hrs

(Choose 5 Courses from the following list)		
HFT 4735	Tourism Geography	3 hrs
HFT 4722	Travel Agency Management	3 hrs
HFT 4762	Current Practices in the Airline Industry	3 hrs
HFT 4736	Destination Management	3 hrs
HFT 4561	Destination Marketing	3 hrs
HFT 3770	Cruise Line Operations and Management	3 hrs

D. Lodging Management Track – 15 hrs

(5 Courses)		
HFT 3313	Hospitality Physical Plant Management	3 hrs
HFT 4343	Hospitality Facilities Planning & Design	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4253	Hotel Operations	3 hrs
HFT 3515	Reservations Sales & Marketing	3 hrs

E. Hospitality Financial Management and Technology – 15 hrs

(5 Courses)		
HFT 4442	Vacation Ownership Resort Reservations/ Data Base Systems	3 hrs
HFT 4473	Hotel Development Analysis	3 hrs
HFT 4453	Food, Beverage and Labor Cost Controls	3 hrs
HFT 4432	Hospitality Industry Auditing	3 hrs
HFT 4413	Technology Applications for Management Decision Making	3 hrs

F. Golf and Club Management Track – 15 hrs

(Choose 5 Courses from the following list)		
HFT 1350	Career and Promotional Development in Golf	3 hrs
HFT 1357	Golf Event Operations	3 hrs
HFT 1356	Concepts and Practices of Golf Assoc.	3 hrs
HFT 2359	Design and Maintenance of Golf Equip	3 hrs
HFT 3353	Golf Planning and Operations I	3 hrs
HFT 3355	Golf Planning and Operations II	3 hrs
HFT 3354	Agronomy for Golf Course Mgmt	3 hrs
HFT 4358	Golf Course Facility Design	3 hrs
HFT 4277	Yacht, Country and City Club Management	3 hrs

6. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

8. Electives (variable)

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9. Cooperative Education
500 hours of supervised work experience

0 hrs

Total Semester Hours Required
Community College Transfer Notes **124 hrs**

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Rosen College of Hospitality Management.
- ACG X001 and X011 will substitute for HFT 2403 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.
- The College may allow substitutions for Hospitality classes taken at the community college. Students should check with the Rosen College of Hospitality Management College for approval of substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207, 407-823-4748; Fax: 407-823-4746

<http://www.ent.ucf.edu>

Coordinator: Bahman Motlagh, E-mail: bmotlagh@mail.ucf.edu

Admission Requirements

Students will be admitted to the program with an **Associate in Science degree in Computer Engineering Technology Network Specialization**. Students admitted under this articulated agreement will be required to satisfy the General Education requirements either at UCF or the courses may be taken at a community college. When applying for admission students need to make sure they indicate on the application form AS-BS IST.

Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36 hrs)

- | | |
|--|-------|
| A. Communication Foundations
(nine hours completed in AS degree program) | 9 hrs |
| B. Cultural and Historical Foundations
(3 hrs taken in AS degree program) | 9 hrs |
| C. Mathematical Foundations
(completed in AS degree program) | 6 hrs |
| D. Social Foundations | 6 hrs |
| E. Science Foundations | 6 hrs |

2. Lower Level Required Courses Taken at Community College (33 hrs)

3. Information Systems Technology Core Courses (C or better grade required in all courses) (26 hrs)

- | | | |
|-----------|--|-------|
| ETI 3651C | Computer Applications | 3 hrs |
| CET 3010 | Intro to Info Technology | 3 hrs |
| STA 2023 | Statistical Methods I | 3 hrs |
| ETI 4448 | Applied Proj Mgmt | 3 hrs |
| ENC 3241 | Writing for the Technical Professional | 3 hrs |
| EET 3085C | Electricity & Electronics <i>or</i> | 4 hrs |
| EET 3086 | Principles of Electrical Circuits | |
| CET 3323C | Digital Technology | 4 hrs |
| CET 2364 | Systems Applications in C | 3 hrs |

4. Required Technical Courses (C or better grade required in all courses) (21 hrs)

- | | | |
|----------|--------------------------------|-------|
| CET 4427 | Applied Database I | 3 hrs |
| CET 3383 | Applied Systems Analysis I | 3 hrs |
| CET 4505 | Applied Operating Systems I | 3 hrs |
| CET 3752 | Intro to Telephony | 3 hrs |
| CET 4483 | Intro to Local Area Network | 3 hrs |
| CET 4333 | Computer Organization & Design | 3 hrs |
| CET 4748 | Wide Area Networks I | 3 hrs |

5. Technical Electives (C or better grade required in all courses) (12 hrs)

- Choose four from the following:
- | | | |
|-----------|------------------------------|-------|
| CET 3198C | Digital Systems | 3 hrs |
| CET 4138C | Digital Programmable Devices | 3 hrs |
| CET 4931 | Current Topics in Technology | 3 hrs |
| CET 4749 | Wide Area Network II | 3 hrs |
| MAP 3401 | Problem Analysis | 3 hrs |
| CET 4523 | Applied Systems Analysis II | 3 hrs |
| CET 4429 | Applied Database II | 3 hrs |
| CET 4583 | Web Base Systems I | 3 hrs |
| CET 4584 | Web Base Systems II | 3 hrs |
| CET 4663 | Computer & Networks Security | 3 hrs |
| STA 5937 | Data Mining I | 3 hrs |

6. Departmental Exit Requirements none

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

9. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: **128 hrs**

Related Programs: none

Related Minors: Interdisciplinary Informatics Technology, Security Computing and Networks

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

Tentative Course Schedule for Transferring Students

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year	14 hrs	Spring	12 hrs
Fall			
EET 3085C Elect & Electronics	4	CET 4483 Local Area Network	3
CET 3323C Digital Tech	4	ETI 3651C Computer Appl	3
CET 3010 Intro to Info Tech	3	Tech Elective	3
CET 2364 Systems Apps in C	3	STA 2023	3
Summer	9 hrs		
CET 4333 Comp Org & Design	3		

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ENC 3241 Tech Rept Writing	3	
ETI 4448 Applied Proj Mgmt	3	
Senior Year		
Fall	12 hrs	Spring 12 hrs
CET 4505 Appl Oper Sys I	3	Tech Elective 3
CET 4427 Appl Database I	3	CET 4483 Intro to LocalArea Net 3
CET 3752 Intro toTelephony	3	Tech Elective 3
CET 4748 Wide Area Networks I	3	Tech Elective 3

1. SYG 2000	
2. PSY 2012	
E. Science Foundations:*	6-8 hrs
BSC 2010C – General Biology	
CHM 1032 & CHM1032L – General Chemistry & Lab	
or Anatomy & Physiology I & II	
or ZOO 3733C & PCB 3703C, Human Anatomy & Physiology	

*Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. BSC 2010 is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

NURSING (B.S.N.)

E. AS TO BSN TRACK

(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

College of Health and Public Affairs

HPA 220, 407-823-2744

<http://www.cohpa.ucf.edu/nursing/>

E-mail: ucfnurse@mail.ucf.edu

RN-BSN Coordinator

This program is also available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see <http://distrib.ucf.edu/home>.

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program. **Separate application** to the *limited access program* must be made directly to the College of Nursing. All applicants must have:

- A minimum overall GPA of 2.5
- Completion of a Statewide Articulated AS in Nursing from a Florida public community college which is composed of 72 hours of course work, including at least 18 hours of transferable General Education courses (graduation 12/00 or later). Individuals who received AS prior to 12/00 or attended school other than a Florida public Community College should follow section "B" – RN to BSN Program.
- Current RN License or license eligible

Degree Requirements

- Completion of all common program prerequisite courses with at least a grade of "C" (2.0) or better
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements
- The courses designated in sections 1 and 2 below may be taken at a Florida community college or other universities and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing Major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 32 hours

1. UCF General Education Program (36+1 hrs)

Students will complete 18 hours of selected General Education courses as part of the articulated A.S. The specific courses will be determined in coordination with 18 hours of General Education courses completed.

Student must complete remaining General Education courses, prerequisites, and foreign language admission requirements prior to NUR 3634 Community Health Nursing. Students completing the General Education requirements at a Florida community college must complete those courses prior to their last 30 hours at UCF.

General Education Program for articulated AS-BS (36-38 hrs)

A. Communication Foundations	9 hrs
1. ENC 1101 & ENC 1102	
2. Prefer SPC 1600	
B. Cultural Historical Foundations	9 hrs
C. Mathematical Foundations	6 hrs
1. Select MAC 1105	
2. Select STA 2014C	
D. Social Foundations	6 hrs

2. Common Program Prerequisites (18 hrs)

PSY 2012	General Psychology**	GEP
SYG 2000	Sociology**	GEP
MCB 2004C	Health Microbiology	4 hrs
CHM 1032	General Chemistry	GEP
CHM 1032L	General Chemistry Lab	GEP
ZOO 3733C	Human Anatomy*	4 hrs
PCB 3703C	Human Physiology*	4 hrs
STA 2014C	Principles of Statistics**	GEP
or 2023	Statistical Methods I	
SOW 3104	Assessing Human Development or	3 hrs
or DEP 2004	Developmental Psychology	
HUN 3011	Human Nutrition	3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits;

**Also meets General Education Requirements;

See a UCF Nursing advisor for possible course substitutions.

3. Core Requirements (50 hrs)

Graduation from an Articulated Associate Degree Nursing program

NUR 3805	Dimensions of Professional Nursing Practice	3 hrs
NUR 3065	Health Assessment	2 hrs
NUR 3065L	Health Assessment Lab	1 hr
NUR 3165	Nursing Research	3 hrs
NUR 3634	Community Health Nursing	3 hrs
NUR 4XXX	Leadership, Management and Role Development	3 hrs
NUR 4837	Health Care Issues, Policy, & Econ	3 hrs
NUR 4XXX	Public Health Nursing	2 hrs
NUR 4XXXL	Practicum in Community and Public Health Nursing for RNs	4 hrs.

Upper Division Credit*

NUR 3028	Essentials of Nursing Practice	2 cr.
NUR 3028L	Essentials of Nursing Practice Lab	1 cr.
NUR 3755L	Essentials of Nursing Practice Clinical	2 cr.
NUR 3225	Nursing Care of the Adult I	3 cr.
NUR 3225L	Nursing Care of the Adult I Clinical	2 cr.
NUR 3445	Nursing Care of Families	3 cr.
NUR 3445L	Nursing Care of Families Clinical	2 cr.
NUR XXXX	Nursing Care of the Adult II	3 cr.
NUR XXXXL	Nursing Care of the Adult II Clinical	3 cr.
NUR XXXX	Psychiatric Mental Health Nursing	3 cr.
NUR XXXX L	Psychiatric Mental Health Nursing Clinical	2 cr.

*May be met by validation

4. Upper Division Restricted Elective (6 hrs)

NUR 3/4XXX	Any two upper division Nursing Electives	6 hrs
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5. Departmental Exit Requirements

Completion of all courses in major with a grade of "C" (2.0) or better

- Cumulative overall GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives variable to meet degree requirements

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA and a 2.5 Nursing Major GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, and

Statewide Articulated A.S. To B.S. Programs

the CLAST (or exemption)

Total Semester Hours Required 128 hrs

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Progression requirements:

Prior to NUR 3805: RN status or eligible to take NCLEX.

Prior to NUR 3165: Complete NUR 3805 and Statistics course with grade of "C" (2.0) or better.

Prior to NUR 3XXX Community Health Nursing:

- Be admitted to the nursing program
- Complete general education requirements and prerequisites or A.A. from a Florida public community college or university (SUS)
- Complete CLAST (or exempt)
- Complete Foreign language admission requirement

Other

Selected courses may be offered at regional campuses of Daytona and Cocoa.

The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica may be required. For further information access <http://www.cohpa.ucf.edu/nursing/>

RADIOLOGIC SCIENCES (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs

HPA2 210, 407-823-2747

<http://www.cohpa.ucf.edu/health.pro/radtransfer.cfm>

Undergraduate Program Director: Thomas Edwards,

E-mail: tedwards@mail.ucf.edu

Admission Requirements

Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program. Separate application to the limited access program must be made directly to the program.

- Criminal history information (background check) must be submitted. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.
- Student must complete a Statewide Articulated A.S. in Radiography program from a Florida public community college that is composed of a minimum of 62 hours of course work, including at least 15 hours of transferable General Education courses. Students certified in radiography and in good standing with the American Registry of Radiologic Technologists (ARRT) who have not completed a Statewide Articulated A.S. in Radiography program from a Florida Public Community College may apply for admission but are not eligible to transfer to UCF under the provisions of the statewide articulation agreement.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0).
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

Degree Requirements

- Students should consult with a departmental advisor
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF residency requirement for Radiography: 33 hours

1. UCF General Education Program (21+1 hrs)

- | | |
|---|-------|
| A. Communication Foundations | 6 hrs |
| Select ENC 1102 and SPC 1600 or SPC 1016 | |
| B. Cultural Historical Foundations | 6 hrs |
| C. Mathematical Foundations | 0 hrs |
| MAC 1105 (Completed at CC) | |
| CGS 1060C (Completed at CC) | |
| D. Social Foundations | 3 hrs |

Select ECO 2013 or ECO 2023 or POS 2041

E. Science Foundations 7 hrs

Select PHY 2053C

Select BSC 1005 or 1050

2. Common Program Prerequisites (4 hrs)

CGS 1060C	Introduction to Computer Science	CC
PCB 3703C	Human Physiology*	CC
PHY 2053C	College Physics I	UCF GEP
PHY 2054C	College Physics II	4 hrs
ZOO 3733C	Human Anatomy*	CC
MAC 1105	College Algebra	CC

CC courses completed as part of the approved A.S. program GEP and core courses with the exception of PHY 2053C and 2054C.

*See Transfer Notes

3. Core Requirements (33 hrs)

A.S. transfer students will not be required to complete all of the core courses listed below. Specific core course requirements will be based on allowable course transfers and career goals.

Junior Level

RTE 3000	Introduction to Radiologic Sciences	3 hrs
RTE 3111C	Introduction to Patient Care	2 hrs
RTE 3503C	Radiographic Procedures I	3 hrs
RTE 3116	Advanced Patient Care	3 hrs
RTE 3418C	Principles of Radiographic Exposure I	3 hrs
RTE 3930	ST: Clinical Education I	2 hrs
RTE 3513C	Radiographic Procedures II	3 hrs
RTE 3457C	Principles of Radiographic Exposure II	3 hrs
RTE 3614	Physics of Image Production	2 hrs
RTE 3308	Medical Physics	3 hrs
STA 2023	Statistical Methods I	3 hrs
HSC 4550	Pathophysiologic Mechanisms	3 hrs
RTE 3930	ST: Clinical Education II	4 hrs

Senior Level

RTE 4563	Special Radiographic Procedures	2 hrs
RTE 4782	Pathophysiology	2 hrs
RTE 4932	ST: Clinical Education III	5 hrs
RTE 4573	Advanced Imaging Modalities	3 hrs
RTE 4574	Computed Tomography Protocols <i>or</i>	1 hr
RTE 4579	Mag Resonance Imaging Protocols	1 hr
RTE 4932	ST: Clinical Education IV	6 hrs
RTE 4385	Radiobiology	1 hr
RTE 4932	ST: Clinical Education V - A	2 hrs
RTE 4932	ST: Clinical Education V - B	4 hrs
RTE 4473	Quality Improvement	3 hrs
RTE 4762	Anatomy for the Medical Imager	3 hrs
RTE 4206	Leadership in Radiologic Sciences	3 hrs
RTE 4932	ST: Advanced Clinical Practicum	4 hrs

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

5. Program Exit Requirements (124 hrs)

A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.

6. Electives

none

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:

none

8. University Minimum Exit Requirements

- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

COMMON COURSE NUMBERING SYSTEM

Classification of Courses

The University course numbering system is as follows:

- 0-0999** Subcollegiate level and not counted in meeting degree requirements.
- 1000-2999** Freshman and sophomore level courses and are designed primarily for these students.
- 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.
- 5000-5999. Beginning graduate and advanced undergraduate level courses.** These courses provide more advanced material than that found in undergraduate courses. They are designed primarily for beginning graduate students, but may be suitable for some advanced undergraduate seniors. They are open for registration to all graduate students and those seniors who receive approval of the appropriate Dean(s).
- 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.

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. This numbering system is used by all public postsecondary institutions in Florida and 33 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

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 a 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 "course equivalency profiles."

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 a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 35 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science 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, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully complete SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine 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 that have not been designated as equivalent.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category 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 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 possess 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

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

- Courses not offered by the receiving institution
- Courses with the last three digits ranging from 900-999 (e.g., ART 2905)
- College preparatory and vocational preparatory courses
- internship, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999
- Applied performance or studio courses in Art, Dance, Interior Design, Music and Theatre
- Skills courses in Criminal Justice
- Graduate courses
- For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. David Dees, Associate Dean, Undergraduate Studies, Millican Hall 210, University of Central Florida, 4000 Central Florida Parkway, Orlando, FL 32816, 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, SunCom 205-0427 or via the internet at <http://scns.fldoe.org>.

Common Course Numbering System

Example of Course Identifier

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
SYG	1	0	1	0	
Sociology, General	Freshman Level at this institution	Entry-level General Sociology	Survey Course	Social Problems	No Laboratory component in this course

ABE Agricultural and Biological Engineering	BUL Business Law	DES Dental Support
ABT Arabic Culture in Translation or Translation Skills	CAP Computer Applications	DIE Dietetics
ABW Arabic Literature (Writings)	CAS Clinical Audiology and Speech Language Pathology (Disc 8/06)	DIG Digital Media
ACG Accounting: General	CAT Catalan Language	DIM Diesel Mechanics
ACO Accounting: Occupational/Technical Variable Paced	CBH Comparative Psychology and Animal Behavior	DSC Domestic Security
ACR HVACR: Heating/Ventilation/AC/Refrigeration: Tech/Trades	CCE Civil Construction Engineering	DTE Dental Laboratory Technology
ADE Adult Education	CCJ Criminology and Criminal Justice	DUT Dutch Language
ADV Advertising	CDA Computer Design/Architecture	EAB Experimental Analysis Of Behavior
AEB Agricultural Economics and Business	CEG Civil Geotechnical Engineering	EAP English As A Second Language for Academic Purposes
AEE Agriculture and Extension Education	CEN Computer Software Engineering	EAS Aerospace Engineering
AER Automotive Mechanics	CES Civil Engineering Structures	ECH Engineering: Chemical
AFA African-American Studies	CET Computer Engineering Technology	ECM Engineering: Computer Math
AFH African History	CGN Civil Engineering	ECO Economics
AFR Aerospace Studies	CGS Computer General Studies	ECP Economic Problems & Policy
AFS African Studies	CHD Home Economics: Child Development	ECS Economic Systems & Development
AGE Agricultural Engineering (Discontinued Effective 2005)	CHI Chinese	EDA Educational Administration
AGG Agriculture - General	CHM Chemistry	EDE Education: Elementary
AGR Agronomy	CHR Chiropractic	EDF Education: Foundations and Policy Studies
AHM Amharic Language	CHS Chemistry - Specialized	EDG Education: General
AHT Amharic Culture in Translation or Translation Skills	CHT Chinese Culture in Translation or Translation Skills	EDH Education: Higher
AHW Amharic Literature (Writings)	CHW Chinese Literature (Writings)	EDM Education: Middle School
AKA Akan Language	CIS Computer Science and Information Systems	EDP Educational Psychology
AKT Akan Culture in Translation or Translation Skills	CJB College Level Application in Criminal Justice	EDS Education Supervision
AKW Akan Literature (Writings)	CJC Corrections	EEC Education: Early Childhood
ALS Agriculture and Life Sciences	CJD Criminal Justice Development	EED Education: Emotional Disorders
AMH American History	CJE Law Enforcement	EEE Engineering: Electrical and Electronic
AML American Literature	CJJ Juvenile Justice	EEL Engineering: Electrical
AMS American Studies	CJK Criminal Justice Basic Training (A.A.S or Vocational)	EER Electrical/Electronics Repair
AMT Aviation Maintenance Technology	CJL Law & Process	EES Environmental Engineering Science
ANG Anthropology--Graduate	CJT Criminal Justice Technologies	EET Electronic Engineering Technology
ANS Animal Science	CLA Classical and Ancient Studies	EEV Electrical/Electronic: Vocational
ANT Anthropology	CLP Clinical Psychology	EEX Education: Exceptional Child - Core Competencies
AOM Agricultural Operations Management	CLT Classical Culture in Translation or Translation Skills	EGC Counselor Education
APA Applied Accounting	CMC Corporate Media Communication	EGI Education: Gifted
APK Applied Kinesiology	CMM Creek/Muskogee/Mikasuki	EGM Engineering Science
ARA Arabic Language	CNT Computer Networks	EGN Engineering: General
ARC Architecture	COA Home Economics: Consumer Affairs	EGS Engineering: Support
ARD Architectural Design	COE Cooperative Education	EHD Education: Hard Of Hearing & Deaf
ARE Art Education	COM Communication	EIA Education: Industrial Arts
ARH Art History	COP Computer Programming	EIN Industrial Engineering
ARR Autobody Repair and Refinishing	COS Cosmetology	EIV Education: Industrial/Vocational
ART Art	COT Computing Theory	ELD Education: Specific Learning Disabilities
ARV Art, Vocational	CPO Comparative Politics	ELR Prefix Discontinued. All Courses Reassigned
ASC Aviation Science: General	CPS Comparative Policy Studies (Multinational)	EMA Materials Engineering
ASG Animal Science: General	CPT Cardiopulmonary Technology	EMC Engineering: Mechanical & Chemical
ASH Asian History	CRW Creative Writing	EME Education: Technology and Media
ASN Asian Studies	CSP Cosmetology - Specialized	EML Engineering: Mechanical
AST Astronomy	CST Comparative Studies	EMR Education: Mental Retardation
ATE Animal Science Technology	CTE Home Economics: Clothing and Textiles	EMS Emergency Medical Services
ATF Aviation Technology: Flight	CTS Computer Technology and Skills	ENC English Composition
ATT Aviation Technology: Theory	CVT Cardiovascular Technology	ENG English - General
AVM Aviation Management	CWR Civil Water Resources	ENL English Literature
AVS Avionics	CYP Community Psychology	ENS English For Non-Native Speakers (College Lvl) Disc. Eff. 2005
AYM Aymara Language	CZE Czech Language	ENU Engineering: Nuclear
BAN Commercial Banking (AIB Courses Only)	CZT Czech Culture in Translation or Translation Skills	ENV Engineering: Environmental
BCA Building Construction Apprenticeships	CZW Czech Literature (Writings)	ENY Entomology
BCC Basic Clinical Clerkships (Required)	DAA Dance, Emphasis On Activity	EOC Ocean Engineering
BCH Biochemistry (Biophysics)	DAE Dance Education	EPH Education: Physical & Multiple Handicapped
BCN Building Construction	DAN Dance	EPI Educator Preparation Institutes
BCT Building Construction Trades	DAS Dairy Science (Discontinued Effective 2005)	ESC Earth Science
BCV Building Construction: Vocational	DCP Design, Construction and Planning	ESE Education: Secondary
BME Biomedical Engineering	DEA Dental Assisting	ESI Industrial/Systems Engineering
BMS Basic Medical Sciences	DEC Marketing and Distributive Education	ESL College-Prep English For Non-Native Speakers (Disc. Eff. 2005)
BOT Botany	DEH Dental Hygiene	EST Electronic Speciality Technology
BRC Banking Related Courses (Not AIB or IFE)	DEM Demography	ETC Engineering Technology: Civil
BSC Biological Sciences	DEN Dentistry	ETD Engineering Technology: Drafting
BTE Business Teacher Education	DEP Developmental Psychology	

Common Course Numbering System

ETG	Engineering Technology: General	HNW	Hungarian Literature (Writings)	MKA	Marketing Applications
ETI	Engineering Technology: Industrial	HOE	Home Economics: General	MLS	Medical Laboratory Science
ETM	Engineering Technology: Mechanical	HOS	Horticultural Sciences	MLT	Medical Laboratory Technology
ETN	Electroencephalography	HRD	Human Resources Development (Discontinued Effective 2005)	MMC	Mass Media Communication
EUH	European History	HSA	Health Services Administration	MNA	Management: Applied
EUS	European Studies	HSC	Health Sciences	MOB	Molecular Biophysics
EVI	Education: Visually Impaired-Blind	HUM	Humanities	MOM	Motorcycle Mechanics
EVR	Environmental Studies	HUN	Human Nutrition	MRE	Medical Records (Discontinued Effective 2003)
EVS	Environmental Science	HUS	Human Services	MSL	Military Science and Leadership
EVT	Education: Vocational/Technical	ICM	International Construction Management	MSS	Massage
EXP	Experimental Psychology	ICW	Icelandic Literature	MTB	Mathematics - Technical and Business
FAD	Home Economics: Family Development	IDH	Interdisciplinary Honors	MTE	Marine Technology and Nautical Science
FAM	Fashion Modeling	IDN	Indonesian Language	MTG	Mathematics - Topology and Geometry
FAS	Fishery & Aquacultural Science	IDS	Interdisciplinary Studies	MTS	Medical Transcription Science
FES	Fire and Emergency Services	IDT	Indonesian Culture in Translation or Translation Skills	MUC	Music: Composition
FFP	Fire Fighting & Protection	IDW	Indonesian Literature (Writings)	MUE	Music Education
FIL	Film	IEA	Industrial Education Applied	MUG	Music: Conducting
FIN	Finance	IHS	Interdisciplinary Health Sciences	MUH	Music: History/Musicology
FLE	Foreign Language Education	IND	Interior Design	MUL	Music Literature
FNR	Forestry & Natural Resources	INP	Industrial and Applied Psychology	MUM	Music: Commercial/Management/Administration
FOL	Foreign Languages	INR	International Relations	MUN	Music Ensembles
FOR	Forestry	INS	International Studies	MUO	Music: Opera/Musical Theatre
FOS	Food Science	IPM	Integrated Pest Management	MUR	Music: Church
FOT	Foreign Languages (In Translation)	ISC	Interdisciplinary Sciences	MUS	Music
FOW	Foreign Languages, Comparative Literature (Writings)	ISM	Information Systems Management	MUT	Music: Theory
FRC	Fruit Crops	ISS	Interdisciplinary Social Sciences	MUY	Music: Therapy
FRE	French Language	ITA	Italian Language	MVB	Applied Music: Brasses
FRT	French Culture in Translation or Translation Skills	ITT	Italian Culture in Translation or Translation Skills	MVH	Historical Instruments
FRW	French Literature (Writings)	ITW	Italian Literature (Writings)	MVJ	Applied Music: Jazz
FSE	Funeral Services	JOU	Journalism	MVK	Applied Music: Keyboard
FSS	Food Service Systems	JPN	Japanese	MVO	Applied Music: Other
FYC	Family, Youth and Community	JPT	Japanese Culture in Translation or Translation Skills	MVP	Applied Music: Percussion
GCO	Golf Course Operations	JPW	Japanese Literature (Writings)	MVS	Applied Music: Strings
GEA	Geography: Regional Areas	JST	Jewish/Judaic Studies	MVV	Applied Music: Voice
GEB	General Business	KOR	Korean Language	MVW	Applied Music: Woodwinds
GEO	Geography: Systematic	KOT	Korean Culture in Translation or Translation Skills	NEM	Nematology
GER	German	KOW	Korean Literature (Writings)	NGR	Nursing, Graduate
GET	German Culture in Translation or Translation Skills	LAA	Landscape Architecture	NMT	Nuclear Medicine Technology
GEW	German Literature (Writings)	LAE	Language Arts and English Education	NSC	Naval Science
GEY	Gerontology	LAH	Latin American History	NUR	Nursing, Generic Undergraduate
GFD	Geophysical Fluid Dynamics	LAS	Latin American Studies	OCA	Office Computer Applications
GIS	Geography: Information Science	LAT	Latin (Language Study)	OCB	Biological Oceanography
GLS	Graduate Liberal Studies	LAW	Law	OCC	Chemical Oceanography
GLY	Geology	LBS	Labor Studies	OCE	General Oceanography
GMS	Graduate Medical Sciences	LDE	Landscape Design	OCG	Geological Oceanography
GMT	Modern Greek Culture in Translation or Translation Skills	LEI	Leisure	OCP	Physical Oceanography
GMW	Modern Greek Literature (Writings)	LGL	Lingala Language	OFT	Occupational Office Technology (Discontinued Effective 2005)
GRA	Graphic Arts	LGT	Lingalan Culture in Translation or Translation Skills	OPT	Ophthalmic Technology/Vision Care
GRE	Classical Greek (Language Study)	LGW	Lingalan Literature (Writings)	ORH	Ornamental Horticulture
GRG	Graphic Arts - Graduate-Level	LIN	Linguistics	ORI	Oral Interpretation
GRK	Modern Greek Language	LIS	Library and Information Studies	ORV	Ornamental Horticulture (Variable Paced)
GRW	Classical Greek Literature (Writings)	LIT	Literature	OSE	Optical Science and Engineering
HAI	Haitian Creole Language	LNW	Latin Literature (Writings)	OST	Office Systems Technology
HAT	Haitian Culture in Translation or Translation Skills	MAA	Mathematics - Analysis	OTA	Office Technology Applications
HBR	Modern Hebrew Language	MAC	Mathematics - Calculus and Precalculus	OTH	Occupational Therapy
HBT	Modern Hebrew Culture in Translation or Translation Skills	MAD	Mathematics - Discrete	PAD	Public Administration
HCP	Health-Care Providers (Assistants)	MAE	Mathematics Education	PAF	Public Affairs
HEB	Ancient Hebrew (Discontinued Effective 2005)	MAG	Mechanized Agriculture (Discontinued Effective 2005)	PAS	Physician Assistant
HEC	Home Economics/Community	MAN	Management	PAX	Peace Studies
HEE	Home Economics Education	MAP	Mathematics Applied	PAZ	Parks and Zoos
HEV	Home Economics - Vocational	MAR	Marketing	PCB	Process Biology (Cell/Molecular/Ecology/Genetics/Physiology)
HFT	Hospitality Management	MAS	Mathematics - Algebraic Structures	PCO	Psychology For Counseling
HHD	Housing & Home Design	MAT	Mathematics	PEL	Phys. Edu. Acts - (Gen.)-Object Centr., Land
HIM	Health Information Management	MCB	Microbiology	PEM	Phys. Edu. Acts. (Gen.)-Perfomr. Centr., Land (Revised)
HIN	Hindi Language	MCC	Special Topics in Mass Communication	PEN	Physical Edu. Activities (Gen.)-Water, Snow, Ice
HIS	General History and Historiography	MDW	Midwifery	PEO	Phys. Edu. Acts. (Profl.)-Object Centr., Land
HIT	Hindi Culture in Translation or Translation Skills	MEA	Medical Assisting Technology	PEP	Phys. Edu. Acts. (Profl.)-Perfmr. Centr., Land
HIW	Hindi Literature (Writings)	MEL	Medical Science Electives	PEQ	Phys. Edu. Acts. (Profl.)-Water, Snow, Ice
HLP	Health/Leisure/Physical Education	MEM	Medieval and Early Modern Studies	PET	Physical Education Theory
HME	Home Economics: Home Management and Equipment	MET	Meteorology	PGY	Photography
HMV	Hospitality Management, Vocational	MGF	Mathematics - General and Finite	PHA	Pharmacy
HMW	Modern Hebrew Literature (Writings)	MHF	Mathematics - History and Foundations	PHC	Public Health Concentration
HNG	Hungarian Language	MHS	Mental Health Services	PHH	Philosophy, History Of
HNT	Hungarian Culture in Translation or Translation Skills	MIS	Military Science	PHI	Philosophy
				PHM	Philosophy Of Man and Society
				PHP	Philosophers and Schools
				PHT	Physical Therapy

Common Course Numbering System

PHY	Physics	SPT	Spanish Culture in Translation or Translation Skills
PHZ	Physics (Continued)	SPW	Spanish Literature (Writings)
PKG	Packaging Sciences	SRK	Sanskrit Language
PLA	Paralegal/Legal Assistant/Legal Administration	SRT	Sanskrit Culture in Translation or Translation Skills
PLP	Plant Pathology	SRW	Sanskrit Literature (Writings)
PLS	Plant Science	SSA	Sub-Sahara African Languages
PLT	Polish Culture in Translation or Translation Skills	SSE	Social Studies Education
PLW	Polish Literature	SST	Sub-Sahara African Culture in Translation or Translation Skills
PMA	Pest Management	STA	Statistics
PMT	Precision Metals Technology	STS	Surgical Technology Studies
POL	Polish Language	SUR	Surveying & Related Areas
POR	Portuguese Language	SVL	Savings and Loan (IFE Courses Only)
POS	Political Science	SWA	Swahili Language
POT	Political Theory	SWT	Swahili Culture in Translation or Translation Skills
POW	Portuguese Literature (Writings)	SWWW	Swahili Literature (Writings)
PPE	Personality	SYA	Sociological Analysis
PRN	Practical Nursing	SYD	Sociology Of Demography/Area Studies/Sociological Minorities
PRO	Prosthetics/Orthotics	SYG	Sociology, General
PRT	Portuguese Culture in Translation or Translation Skills	SYO	Social Organization
PSB	Psychobiology	SYR	Social Processes
PSC	Physical Sciences	TAR	Technical Architecture
PSE	Poultry Science (Discontinued Effective 2005)	TAX	Taxation
PSG	Polysomnography	TCN	Telecommunications
PSY	Psychology	TDR	Technical Drafting
PTA	Precision Technology Apprenticeships	THE	Theatre Studies and General Resources
PTN	Pharmacy Technician	TPA	Theatre Production and Administration
PUP	Public Policy	TPP	Theatre Performance and Performance Training
PUR	Public Relations	TRA	Transportation and Logistics
OMB	Quantitative Methods in Business	TSL	Teaching English As A Second Language
RAT	Radiation Therapy	TTE	Transportation Engineering
RCS	Rehabilitation Counseling Services	TUR	Turkish Language
REA	Reading	TUT	Turkish Culture in Translation or Translation Skills
RED	Reading Education	TUW	Turkish Literature (Writings)
REE	Real Estate	URP	Urban and Regional Planning
REL	Religion	URS	Urban and Regional Studies
RET	Respiratory Care	VAR	Variable-Paced Architecture
RHT	Radiation Health/Radiation Protection Technology	VEC	Vegetable Crops
RMI	Risk Management & Insurance	VEM	Veterinary Medicine Professional
ROT	Reactor Operator Technology	VIC	Visual Communication
RSD	Rehabilitation Science Doctorate	VME	Veterinary Medicine Graduate
RTE	Radiologic Technology	VPI	Vocational Preparatory Instruction
RTT	Radio/Television Technology	VTN	Vietnamese Language
RTV	Radio-Television	VTT	Vietnamese Culture in Translation or Translation Skills
RUS	Russian Language	VTW	Vietnamese Literature (Writings)
RUT	Russian Culture in Translation or Translation Skills	WCL	Ward Clerk
RUW	Russian Literature (Writings)	WDS	Weed Science
SAL	South Asian Languages	WIS	Wildlife Science
SBM	Small Business Mgmt: Occupational/Technical Variable Paced	WOH	World History
SCA	Scandinavian Languages	WOL	Wolof Language
SCC	Security	WOT	Wolof Culture in Translation or Translation Skills
SCE	Science Education	WOW	Wolof Literature (Writings)
SCT	Scandinavian Culture in Translation or Translation Skills	WST	Women's Studies
SCW	Serbo-Croatian Literature (Writings)	XHO	Xhosa Language
SCY	Security	XHT	Xhosa Culture in Translation or Translation Skills
SDS	Student Development Services	XHW	Xhosan Literature (Writings)
SEC	Serbo-Croatian Language	YOR	Yoruba Language
SED	Speech Education	YOT	Yoruba Culture in Translation or Translation Skills
SER	Small Engine Mechanics	YRW	Yoruba Literature (Writings)
SHO	Shona Language	ZOO	Zoology
SHT	Shona Culture in Translation or Translation Skills		
SLA	Second Language Acquisition/Instructional Technology		
SLL	Slavic Languages		
SLS	Student Life Skills (Learning)		
SLT	Slavic Culture in Translation or Translation Skills		
SLW	Slavic Literature (Writings)		
SNW	Scandinavian Literature		
SON	Sonography		
SOP	Social Psychology		
SOS	Soil Science		
SOW	Social Work		
SPA	Speech Pathology and Audiology		
SPB	Sports Business		
SPC	Speech Communication (4/97)		
SPM	Sports Management		
SPN	Spanish Language		
SPS	School Psychology		

Courses Numbered 0-999

Depending upon previous background and test scores earned, individual students may be required to complete more than the minimum number of credits required for graduation in their respective programs. Courses numbered less than 1000 (Statewide Common Course Numbers) are sub-collegiate level and may not be counted in meeting degree credit hour requirements for graduation.

Special Courses

In addition to the regular courses listed in this catalog, special courses may be available. Students should consult their academic advisor for details.

Special Undergraduates	Grad ¹
Directed Independent Studies 3905, 4906, 5907	1906, 2905, 5907
Directed Independent Research	4912, 5917 5917
Special Undergraduate Research	IDS 3913, 4914
Special Topics/Seminars 3930, 4932, 5937	1931, 2930, 5937
*internship, Practicum, Clinical Prac	3940, 4941 59442
Cooperative Education ³ 3949, 4949	1949, 2949, 5949
Honors Undergraduate Thesis	3970, 4970
Honors Directed Reading ¹	4903
Honors Directed Reading ²	4904
Study Abroad	4955
5957	

*These courses may be assigned variable credit. Some may be repeated upon approval.

¹The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.

²Enrollment is limited to those students who are fully admitted to the Graduate Program.

³Enrollment is limited to those students who are admitted into the Co-op program.

Dual Usage of Credit Hours

With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should contact their advisor or college for specific program requirements or additional information.

UCF Course Description Legend

PR: (Prerequisite) A course in which credit must be earned prior to enrollment in the listed course.

CR: (Corequisite) A course that must be taken concurrently with, or prior to, the listed course.

CI: (Consent of the Instructor)

Hours Code

Each course listed is followed by a code that shows hours of credit and contact hours.

Example:

ENV 4121C ECS-CEE 3(2,3)

ENV 4121C 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 field work.

Common Course Numbering System

College/School/Department Indicator

Following the course number for each course listed is an indicator denoting the college, school, and department responsible for the course. The college designators are BA = Business Administration, AH = Arts & Humanities, BHC = Burnett Honors College, COS = Sciences, ED = Education, ECS = Engineering and Computer Science, HM = Hospitality Management, HPA = Health and Public Affairs, and CON = Nursing. Department indicators are listed below (by college):

College/School	Department	Abbreviation
CAH	African American Studies	AAS
CAH	Art	ART
CAH	Arts & Humanities	CAH
CAH	Digital Media	DIG
CAH	English	ENG
CAH	Film	FILM
CAH	Foreign Languages	LANG
CAH	History	HIST

CAH	Judaic Studies	JUD	ECS	Civil & Environmental	CEE
CAH	Music	MUSIC	ECS	Electrical Eng & Computer Sci	EECS
CAH	Philosophy	PHIL	ECS	Engineering	ENGR
CAH	Theatre	THEA	ECS	Engineering Technology	ENT
CAH	Women's Studies	WOM	ECS	Industrial & Management	IEMS
CON	Nursing	NURS	ECS	Mechanical/Materials/Aerospace	MMAE
COS	Biology	BIOL	ECS	Military Science-Army ROTC	AROTC
COS	Chemistry	CHEM	ED	Child, Family & Comm Services	CFCS
COS	Communication	COMM	ED	Education	EDU
COS	Mathematics	MATH	ED	Ed Research, Tech & Lead	ERTL
COS	Physics	PHYS	ED	Educational Foundations	EDF
COS	Political Science	POLS	ED	Educational Studies	ES
COS	Psychology	PSYCH	ED	Human Services/Wellness	HSW
COS	Radio/TV	R/TV	ED	Instructional Programs	IP
COS	Sociology & Anthropology	SOC/AN	ED	Teaching & Learning Principles	TLP
COS	Statistics	STAT	HM	Hospitality Management	HOSP
BA	Accounting	ACCT	HPA	Communicative Disorders	COMD
BA	Business	BUS	HPA	Criminal Justice & Legal Studies	CJLS
BA	Economics	ECON	HPA	Health & Public Affairs	HPA
BA	Finance	FIN	HPA	Health Information Management	HIM
BA	Management	MAN	HPA	Health Professions	HP
BA	Management Information System	MIS	HPA	Public Administration	PUB
BA	Marketing	MAR	HPA	Social Work	SOW
ECS	Air Force ROTC-Aerospace	AFROTC	UG	Liberal/Interdiscp. Studies	LS



UCF Courses and Descriptions

Finding a Course in this List: The UCF courses in this section are listed alphabetically by prefix. Consult the "Common Course Numbering System" section of the *Undergraduate Catalog* for additional information.

Availability of Courses: The University does not offer all of the courses listed in this *Undergraduate Catalog* each academic year, academic semester, or term. Consult the online Class Schedule at <https://my.ucf.edu> for those courses offered each semester/term.

At the end of each course description is information on the planned scheduling of the course, (Fall, Spring or Occasional-department scheduled, Odd-Even based on year of term), and any applicable Material and Supply (M&S) Fee.

<p>ACG 2021 BA-ACCT 3(3,0) Principles of Financial Accounting: PR: Sophomore standing and MAC 1105 or equivalent. Nature of accounting, financial statements, the accounting cycle, assets, current liabilities, long-term debt, and owner's equity; accounting for proprietorships and corporations. <i>Fall, Spring.</i></p>	<p>ACG 4401C BA-ACCT 3(3,1) Accounting Information Systems: PR: Accounting major or minor, ACG 3131 and CGS 2100C, with a grade of "C" or better. Manual and computer-based accounting information systems. <i>Fall, Spring.</i></p>	<p>ADV 4103 COS-COMM 3(3,0) Radio-Television Advertising: PR: R/TV or AD/PR Majors only and ADV 3008 or C.I. Radio and television advertising sales, including interpretation of rate structures, program audiences, and creative approaches to sponsor needs. <i>Fall, Spring.</i></p>
<p>ACG 2021H BA-ACCT 3(3,0) Honors Principles of Financial Accounting: PR: MAC 1105 and consent of Honors. Same as ACG 2021 with honors level content. <i>Occasional.</i></p>	<p>ACG 4651 BA-ACCT 3(3,0) Auditing: PR: Accounting major or minor, ACG 3141 and ACG 4401C with a grade of "C" or better. The standards, practices, and procedures followed in the audit function. <i>Fall, Spring.</i></p>	<p>ADV 4300 COS-COMM 3(3,0) Advertising Media Planning: PR: ADV 3008 and AD/PR major. Media planning and buying, including basic media terms, calculations, and resources. <i>Occasional.</i></p>
<p>ACG 2071 BA-ACCT 3(3,0) Principles of Managerial Accounting: PR: ACG 2021 and MAC 1105 or equivalent. The purpose of this class is to thoroughly familiarize the student with the various uses of accounting information for planning and control. <i>Fall, Spring.</i></p>	<p>ACG 4671 BA-ACCT 3(3,0) Internal Auditing: PR: Accounting major or minor, ACG 3131 or ACG 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control. <i>Fall, Spring.</i></p>	<p>AFA 2300 CAH-AAS 3(3,0) African American Music: Comprehensive look at music written and made popular by African Americans. <i>Occasional.</i></p>
<p>ACG 3082 BA-ACCT 3(3,0) Accounting For Non-Business Majors: PR: Junior Standing. Accounting and reporting from an investment and managerial decision making perspective. <i>Occasional.</i></p>	<p>ACG 5206 BA-ACCT 3(3,0) Seminar in Financial Reporting: PR: Acceptance for graduate study and all accounting foundation courses. An in-depth study of advanced financial reports. <i>Occasional.</i></p>	<p>AFA 3102 CAH-AAS 3(3,0) Black Perspectives: A Multidisciplinary Approach: PR: ENC 1102. Key issues and methodologies in African American Studies featuring presentations by representative faculty from various disciplines. <i>Fall, Spring.</i></p>
<p>ACG 3131 BA-ACCT 3(3,0) Financial Accounting Concepts and Analysis: PR: Junior Standing, Accounting major or minor, and ACG 2021, ACG 2071 with a grade of "C" (2.0) or better. Technical knowledge about accounting measurement, and disclosure plus the study of how accounting reports are analyzed, and interpreted by external users. <i>Fall, Spring.</i></p>	<p>ACG 5346 BA-ACCT 3(3,0) Advanced Managerial Accounting: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3361 with a grade of "C" or better and ECO 3411. Advanced and current techniques for generation and use of accounting information in managerial decision-making. <i>Fall, Spring.</i></p>	<p>AFA 3104 CAH-AAS 3(3,0) The African American Experience: PR: AFA 3102. The black experience in the African diaspora: interdisciplinary examination of major texts, theories, practices and philosophical foundations in African American intellectual and cultural history. <i>Fall, Spring.</i></p>
<p>ACG 3141 BA-ACCT 3(3,0) Intermediate Financial Accounting: PR: Accounting major or minor, ACG 3131 with a grade of "C" (2.0) or better. Accounting theory and practice related to preparation, and interpretation of external financial statements. <i>Fall, Spring.</i></p>	<p>ACG 5405 BA-ACCT 3(3,0) Advanced Accounting Information Systems: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 4401C. Design, analysis and evaluation of accounting information systems. <i>Fall, Spring.</i></p>	<p>AFA 3955 CAH-AAS 6(6,0) Study Abroad in Eastern Caribbean: PR: LAS 4023 or Junior standing. Interdisciplinary study abroad program focuses on the arts and humanities of African diasporic cultures in the Eastern Caribbean. <i>Occasional.</i></p>
<p>ACG 3361 BA-ACCT 3(3,0) Cost Accounting I: PR: Junior standing, Accounting major or minor, and MAC 1105, ECO 2013, ECO 2023, and ACG 2071 with a grade of "C". Theory and practice of using accounting information for managerial planning, and control as well as in costing, and pricing decisions. <i>Fall, Spring.</i></p>	<p>ACG 5517 BA-ACCT 3(3,0) Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations. <i>Occasional.</i></p>	<p>AFA 4105 CAH-AAS 3(3,0) Documenting African American Heritage and Life: PR: AFA 3104 or Junior standing. Community-based exploration of tools, methods, and techniques of documenting African American life and heritage, focusing on Central Florida black communities. <i>Occasional.</i></p>
<p>ACG 3501 BA-ACCT 3(3,0) Financial Accounting for Governmental and Nonprofit Organizations: PR: Accounting major or minor, and a grade of "C" or better in ACG 2071. Application of the application of financial and managerial accounting, and auditing for governmental, and nonprofit organizations. <i>Fall, Spring.</i></p>	<p>ACG 5625 BA-ACCT 3(3,0) Auditing and EDP: PR: Acceptance for graduate study, ACG 4401C, and ACG 4651. An examination of auditing procedures followed when a company uses a computer to process financial records. <i>Occasional.</i></p>	<p>AFA 5930 CAH-AAS 3(3,0) Topics in African American Studies: PR: graduate status or senior standing or C.I. This interdisciplinary seminar uses primary texts to examine the impact of black culture, aesthetic and philosophical ideas on 20th century American society. <i>Occasional.</i></p>
<p>ACG 4252 BA-ACCT 3(3,0) International Financial and Managerial Accounting: PR: Accounting major or minor, ACG 2021, ACG 2071. An examination of environmental factors affecting international accounting standards and multinational corporate operations. Not open to accounting majors. <i>Occasional.</i></p>	<p>ADE 4382 ED-TLP 3(3,0) Teaching Adult Learners in Technical Programs: PR: EVT 3365 or C.I. Planning for and teaching of adult learners in formal & informal technical settings. <i>Fall.</i></p>	<p>AFH 3100 CAH-HIST 3(3,0) African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870. <i>Occasional.</i></p>
<p>ACG 4284 BA-ACCT 3(3,0) Financial Reporting for Consolidated Entities: PR: ACG 3141. Financial reporting practices and issues related to consolidated entities including translation of foreign financial statements. <i>Occasional.</i></p>	<p>ADV 3008 COS-COMM 3(3,0) Principles of Advertising: PR: SPC 1600. Overview of the field of advertising: purposes, techniques, the role of agencies, advertisers and the media. <i>Fall, Spring.</i></p>	<p>AFH 3200 CAH-HIST 3(3,0) African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present. <i>Occasional.</i></p>
<p>ADV 4101 COS-COMM 3(3,0) Advertising Copywriting: PR: AD/PR majors only and ADV 3008. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media. <i>Fall, Spring.</i></p>		<p>AFH 5806 CAH-HIST 3(3,0) The Historiography of Slavery in Africa: PR: graduate status or senior standing or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa. <i>Occasional.</i></p>

AFR 1101C	ECS-AFROTC	1(1,2)	AMH 3403	CAH-HIST	3(3,0)	AMH 3610	CAH-HIST	3(3,0)
<p>The Air Force Today I: History, mission, organization, and doctrine of the United States Air Force and a study of U.S. Strategic Offensive and Defensive Forces. Hands on training. <i>Fall</i>.</p>			<p>History of the South Since 1865: PR: AMH 2010 and 2020, or C.I. Reconstruction, the "solid South" and the racial dilemma, progressivism for whites only, southern literature, 20th-century economic, political and social changes, and the new Reconstruction. <i>Occasional</i>.</p>			<p>Sport in America to 1945: PR: AMH 2010, AMH 2020 or C.I. History of sport emphasizing development of professional and collegiate sport to 1945. <i>Occasional</i>.</p>		
AFR 1111C	ECS-	1(1,2)	AMH 3422	CAH-HIST	3(3,0)	AMH 3613	CAH-HIST	3(3,0)
<p>The Air Force Today II: A brief review of the Army, Navy, and Marine forces. An introduction to special operations and counterinsurgency. <i>Spring</i>.</p>			<p>Frontier Florida: PR: AMH 2010 and AMH 2020 or C.I. History of Florida from U.S. territory until post-war industrialization. <i>Occasional</i>.</p>			<p>Sport in America Since 1945: PR: AMH 2010, AMH 2020 or C.I. American sport emphasizing the development of professional and collegiate sport since 1945. <i>Odd Spring</i>.</p>		
AFR 2130C	ECS-AFROTC	1(1,2)	AMH 3425	CAH-HIST	3(3,0)	AMH 3800	CAH-HIST	3(3,0)
<p>The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II. Hands on training. <i>Fall</i>.</p>			<p>Sunbelt Florida: PR: AMH 2010 and AMH 2020 or C.I. History of Florida from post-war industrialization to the present. <i>Occasional</i>.</p>			<p>Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867. <i>Occasional</i>.</p>		
AFR 2131C	ECS-AFROTC	1(1,2)	AMH 3441	CAH-HIST	3(3,0)	AMH 4110	CAH-HIST	3(3,0)
<p>The Development of Air Power II: A study of the development of aerospace capabilities since World War II, highlighting technological advancements and the role of aerospace power in the contemporary world. <i>Spring</i>.</p>			<p>History of the Frontier: Eastern America: PR: AMH 2010 and AMH 2020 or C.I. The progression of the westward movement from the colonial settlements to the Mississippi, considered as an interpretive approach to American history. <i>Occasional</i>.</p>			<p>Colonial America, 1607-1763: PR: AMH 2010 and 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries. <i>Occasional</i>.</p>		
AFR 3220C	ECS-AFROTC	3(3,2)	AMH 3442	CAH-HIST	3(3,0)	AMH 4112	CAH-HIST	3(3,0)
<p>Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles. Hands on training. <i>Fall</i>.</p>			<p>History of the Frontier: Western America: PR: AMH 2010 and 2020 or C.I. The development of the trans-Mississippi West and its impact upon American history. <i>Occasional</i>.</p>			<p>The Atlantic World: PR: C.I. The impact and transforming effect of the Atlantic System on the peoples of Western Europe, Western Africa, the Caribbean and the Americas. <i>Occasional</i>.</p>		
AFR 3230C	ECS-AFROTC	3(3,2)	AMH 3541	CAH-HIST	3(3,0)	AMH 4130	CAH-HIST	3(3,0)
<p>Air Force Evaluation and Management II: PR: AFR 3220C or C.I. A concluding study of Air Force management fundamentals, including performance evaluation skills. <i>Spring</i>.</p>			<p>U. S. Military History To 1900: PR: AMH 2010 and AMH 2020. U.S. military history from the colonial period to 1900 focusing on the creation of American military institutions, conduct of war, and influence on society. <i>Occasional</i>.</p>			<p>The Age of the American Revolution, 1763-1789: PR: AMH 2010 and 2020 or C.I. The American Revolution - its origins, course, and impact upon American society - the Articles of Confederation, the Philadelphia Convention and its work. <i>Occasional</i>.</p>		
AFR 4201C	ECS-AFROTC	3(3,2)	AMH 3547	CAH-HIST	3(3,0)	AMH 4140	CAH-HIST	3(3,0)
<p>National Security Affairs and Prep for Active Duty I: PR: AFR 3220C. Examination of the military and its role in American society. A study of the framework and formation of defense strategy. Hands on training. <i>Fall</i>.</p>			<p>U.S. Military History Since 1900: PR: AMH 2010 and AMH 2020, or C.I. U. S. military history since 1900 emphasizing civil-military relations, warfare, and military developments. <i>Occasional</i>.</p>			<p>Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812. <i>Occasional</i>.</p>		
AFR 4210C	ECS-AFROTC	3(3,2)	AMH 3558	CAH-HIST	3(3,0)	AMH 4160	CAH-HIST	3(3,0)
<p>National Security Affairs and Prep for Active Duty II: An examination of defense implementation and its impact on the decision-making process. A study of the military justice system and its protection of individual rights. <i>Spring</i>.</p>			<p>History of American Law: PR: AMH 2010 and AMH 2020, or EUH 2000 and EUH 2001. The social, political, and economic significance of the law as a historic process in America. <i>Occasional</i>.</p>			<p>Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict. <i>Occasional</i>.</p>		
AMH 2010	CAH-HIST	3(3,0)	AMH 3561	CAH-HIST	3(3,0)	AMH 4170	CAH-HIST	3(3,0)
<p>U.S. History: 1492-1877: Survey of U.S. History from 1492-1877. <i>Fall, Spring</i>.</p>			<p>Women in American History I: PR: AMH 2010, AMH 2020. Examines women in indigenous, colonial, African-American slave and free societies, Republican Motherhood, impact of industrialization on women's roles, and emergence of women's rights movement. <i>Occasional</i>.</p>			<p>Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism. <i>Occasional</i>.</p>		
AMH 2010H	CAH-HIST	3(3,0)	AMH 3562	CAH-HIST	3(3,0)	AMH 4201	CAH-HIST	3(3,0)
<p>Honors U.S. History: 1492-1877: PR: Consent of Honors. Survey of U.S. History from 1492-1877. <i>Fall, Spring</i>.</p>			<p>Women in American History II: PR: AMH 2010, AMH 2020 or C.I. Examines industrialization, entry of women into higher education and professions, winning of suffrage, changing profile of female wage earner, and rise of modern feminist movement. <i>Occasional</i>.</p>			<p>The Gilded Age and Progressivism: PR: AMH 2010 and 2020 or C.I. The Rise of Industrialized and Urbanized America, The emergence of the New South and the New West, the Populist Movement, overseas expansion, Progressivism. <i>Occasional</i>.</p>		
AMH 2020	CAH-HIST	3(3,0)	AMH 3571	CAH-HIST	3(3,0)	AMH 4231	CAH-HIST	3(3,0)
<p>U.S. History: 1877-Present: Survey of U.S. History from 1877 to the present. May be taken before AMH 2010. <i>Fall, Spring</i>.</p>			<p>Black American History I: PR: AMH 2010, AMH 2020 or C.I. History of Black Americans from Africa, to slavery, to freedom and its limits in pre-World War I America. <i>Occasional</i>.</p>			<p>United States History: 1914-1939: PR: AMH 2010 and 2020 or C.I. The progressive reforms of Woodrow Wilson, World War I, post-war prosperity, the Depression, the New Deal, and the coming of World War II. <i>Occasional</i>.</p>		
AMH 2020H	CAH-HIST	3(3,0)	AMH 3572	CAH-HIST	3(3,0)	AMH 4270	CAH-HIST	3(3,0)
<p>Honors U.S. History: 1877-Present: PR: Permission of Honors and AMH 2010 or C.I. Survey of U.S. History from 1877 to the present. May be taken before AMH 2010. Honors-level content. <i>Fall, Spring</i>.</p>			<p>Black American History II: PR: AMH 2010, AMH 2020 or C.I. A history of Black America in the Twentieth century and the continuing struggle for equality in America. <i>Occasional</i>.</p>			<p>United States History: 1939-1960: PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties. <i>Occasional</i>.</p>		
AMH 3370	CAH-HIST	3(3,0)	AMH 3586	CAH-HIST	3(3,0)	AMH 4273	CAH-HIST	3(3,0)
<p>American Economic History: PR: AMH 2010 and AMH 2020, or C.I. An introduction to the economic development of the U.S., with emphasis on agriculture, labor, industrialization, transportation, and banking. <i>Occasional</i>.</p>			<p>History of the Hispanic Minorities in the U.S.: Course begins with 16th century through the modern period. Special emphasis on Chicanos, Puerto Ricans, and Cubans. <i>Occasional</i>.</p>			<p>U. S. History Since 1960: PR: AMH 2010 and AMH 2020 or C. I. Civil rights and Women's Liberation Movements, Vietnam War, Watergate, the decline of liberalism and the rise of conservatism, end of the Cold War. <i>Occasional</i>.</p>		
AMH 3402	CAH-HIST	3(3,0)				AMH 4283	CAH-HIST	3(3,0)
<p>History of the South to 1865: PR: AMH 2010 or AMH 2020 or C.I. Development of the southern colonies, beginning sectionalism, the cotton economy, and slavery, Calhoun's constitutional theories, secession, Civil War and its aftermath. <i>Occasional</i>.</p>						<p>Cold War Homefronts: PR: EUH 2000 and EUH 2001, or C.I. Examination of The Cold War from the homefront perspective. Both sides of the Iron Curtain are addressed. <i>Occasional</i>.</p>		

UCF Courses and Descriptions

<p>AMH 4311 CAH-HIST 3(3,0) American Culture I: PR: AMH 2010 and 2020 or C.I. The European Backgrounds: Puritanism: Enlightenment; the Great Awakening; Revolutionary Thought: Romanticism; the Southern Mind and the Yankee Response; Popular Culture and the rise of recreation. <i>Occasional.</i></p>	<p>AMH 5176 CAH-HIST 3(3,0) Colloquium in Civil War and Reconstruction: PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era. <i>Occasional.</i></p>	<p>AML 3614 CAH-ENG 3(3,0) Topics in African-American Literature: PR: Grade of C (2.0) or better required in ENC 1102. Literature by and about African-American culture in the United States. May be repeated for credit. <i>Occasional.</i></p>
<p>AMH 4313 CAH-HIST 3(3,0) American Culture II: PR: AMH 2010 and 2020 or C.I. The Darwinian Revolution: revolt of the intellectuals; the media explosion; mass entertainment in mass culture; the loss of community, the nuclear age, and presentism. <i>Occasional.</i></p>	<p>AMH 5219 CAH-HIST 3(3,0) Colloquium in Late 19th Century U.S.: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of late 19th-century U.S. <i>Occasional.</i></p>	<p>AML 3615 CAH-ENG 3(3,0) Harlem, Haiti, and Havana: PR: Grade of C (2.0) or better required in ENC 1102. A comparative approach to African American and Caribbean writers, focusing on literary styles, historical contexts, and themes such as nationalism, popular music, and folk religion. <i>Occasional.</i></p>
<p>AMH 4376 CAH-HIST 3(3,0) U.S. Space History: PR: AMH 2010 and AMH 2020, or C.I. Post World War II US rocketry and space travel with focus on the role of Cape Canaveral/Kennedy Space Center. <i>Occasional.</i></p>	<p>AMH 5296 CAH-HIST 3(3,0) Colloquium in 20th Century U.S.: PR: graduate status 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 only when course content is different. <i>Occasional.</i></p>	<p>AML 3640 CAH-ENG 3(3,0) Native American Literature: PR: Grade of C (2.0) or better required in ENC 1101 and ENC 1102. Native American genres, including traditional oral narratives, ritual and contemporary poetry, autobiography, and the novel. <i>Occasional.</i></p>
<p>AMH 4510 CAH-HIST 3(3,0) Rise of the United States to World Power, 1776-1914: PR: AMH 2010 and 2020 or C.I. The evolution of basic American policies. American expansion. America's major wars, and the emergence of America as a world power. <i>Occasional.</i></p>	<p>AMH 5391 CAH-HIST 3(3,0) Colloquium in U.S. Cultural History: PR: graduate status or senior standing or C.I. Students will read and discuss a common or diverse body of the significant literature in the field. <i>Occasional.</i></p>	<p>AML 3682 CAH-ENG 3(3,0) Ethnic Literature in America: PR: ENC 1102. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States. <i>Occasional.</i></p>
<p>AMH 4512 CAH-HIST 3(3,0) US Diplomatic History: 1914-1945: PR: AMH 2010 and AMH 2020, or C.I. U.S. diplomacy from World War I through World War II. <i>Occasional.</i></p>	<p>AMH 5407 CAH-HIST 3(3,0) Colloquium in American South: PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present. <i>Occasional.</i></p>	<p>AML 3682H CAH-ENG 3(3,0) Honors Ethnic Literature in America: PR: Permission of Honors and ENC 1102H or equivalent credit. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States. Honors content. <i>Occasional.</i></p>
<p>AMH 4513 CAH-HIST 3(3,0) United States as a Great Power: 1945-Present: PR: AMH 2020 or C.I. U.S. diplomacy from World War II to the present. <i>Occasional.</i></p>	<p>AMH 5446 CAH-HIST 3(3,0) Colloquium in U.S. Frontier: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of frontier history. <i>Occasional.</i></p>	<p>AML 4101 CAH-ENG 3(3,0) American Novel: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Analysis of major American novelists. <i>Occasional.</i></p>
<p>AMH 4573 CAH-HIST 3(3,0) Black Militancy in the 20th Century: PR: AMH 2010 and AMH 2020 or C.I. The rise and development of black militant organizations and how these groups have been influenced by hostile foreign entities. <i>Occasional.</i></p>	<p>AMH 5515 CAH-HIST 3(3,0) Colloquium in U.S. Diplomatic History: PR: graduate status or senior standing or C.I. A survey of the historical literature of American foreign policy. May be repeated for credit only when course content is different. <i>Occasional.</i></p>	<p>AML 4153 CAH-ENG 3(3,0) American Poetry at Mid-Century: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Study of major figures from the "Middle Generation": Berryman, Bishop, Jarrell, Lowell, Plath, Rich, Roethke, and others. <i>Occasional.</i></p>
<p>AMH 4644 CAH-HIST 3(3,0) Viewing American History in the Twentieth Century: PR: AMH 2010 and AMH 2020 or C.I. Examination of television, film, comics, and other popular media as primary sources in the study of U.S. History in the 20th Century. <i>Spring.</i></p>	<p>AMH 5566 CAH-HIST 3(3,0) Colloquium: Women in American History: PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of Women in American History from colonial time to the present. <i>Occasional.</i></p>	<p>AML 4155 CAH-ENG 3(3,0) Modern American Poetry: PR: Grade of C (2.0) or better required in ENG 3014. Major American poets of the modern (1900-1950) period. <i>Occasional.</i></p>
<p>AMH 4650 CAH-HIST 3(3,0) History of U.S. Aviation: PR: AMH 2010 or AMH 2020. Aviation development in the United States and its role in American culture. <i>Even Fall.</i></p>	<p>AMH 5937 CAH-HIST 3(3,0) AP American History: PR: graduate status or senior standing or C.I. Participants will enhance their knowledge of weighing evidence and interpretations presented in historical scholarship with respect to the social, cultural, intellectual, economic, and political-diplomatic history of the U.S. <i>Occasional.</i></p>	<p>AML 4261 CAH-ENG 3(3,0) Literature of the South: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014 or C.I. Development of Southern literature from its beginnings in the "Old South" through the post-Civil War and the Southern-Renaissance to the present. Emphasizes reading from Poe, Ransom, Tate, Faulkner, Porter, Warren, O'Connor, Percy, and Styron. <i>Occasional.</i></p>
<p>AMH 5116 CAH-HIST 3(3,0) Colloquium in U.S. Colonial History: PR: graduate status or senior standing or C.I. Reading and discussion of the literature on selected topics in colonial American history. <i>Occasional.</i></p>	<p>AML 3031 CAH-ENG 3(3,0) American Literature I: PR: Grade of C (2.0) or better required in ENC 1102. Major American writers from beginning through Whitman. <i>Fall, Spring.</i></p>	<p>AML 4265 CAH-ENG 3(3,0) Florida Writers: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. This course will examine writers who have lived in and written about Florida, such as Hemingway, Rawlings, Hurston, and Stevens. <i>Occasional.</i></p>
<p>AMH 5137 CAH-HIST 3(3,0) Colloquium in U.S. Revolutionary Period: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in the Revolutionary Era, 1763-1789. <i>Occasional.</i></p>	<p>AML 3041 CAH-ENG 3(3,0) American Literature II: PR: Grade of C (2.0) or better required in ENC 1102. Major American writers from Twain to present. <i>Fall, Spring.</i></p>	<p>AML 4300 CAH-ENG 3(3,0) Major American Authors: PR: ENG 3014. A comprehensive study of selected major American literary figures. May be repeated for credit only when course content is different. <i>Fall, Spring.</i></p>
<p>AMH 5149 CAH-HIST 3(3,0) Colloquium in Early U.S. History, 1789-1815: PR: graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of the early national period. <i>Occasional.</i></p>	<p>AML 3283 CAH-ENG 3(3,0) Contemporary American Women's Fiction: PR: Grade of C (2.0) or better required in ENC 1102. Examines how novels and short stories by contemporary U.S. women define identity from diverse woman-centered and feminist perspectives. <i>Occasional.</i></p>	<p>AML 4304 CAH-ENG 3(3,0) Whitman and His Heirs: PR: ENG 3014. The work of American poet, Walt Whitman (1819-1892), and his influence on modern American poetry. <i>Occasional.</i></p>
<p>AMH 5169 CAH-HIST 3(3,0) Colloquium in Age of Jackson: PR: graduate status or senior standing or C.I. Intensive reading and class discussion on selected topics of the Jacksonian age. <i>Occasional.</i></p>	<p>AML 3613 CAH-ENG 3(3,0) Narratives of Slavery: PR: Grade of C (2.0) or better required in ENC 1102. Literary representations of New World slavery in the past and the present. <i>Occasional.</i></p>	<p>AML 4321 CAH-ENG 3(3,0) Modern American Literature: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Major writers of modern American literature. <i>Occasional.</i></p>

AML 4630	CAH-ENG	3(3,0)	ANG 5620	COS-ANTHRO	3(3,0)	ANT 3164	COS-ANTHRO	3(3,0)
Latino/Latina Literature: PR: Grade of C (2.0) or better required in ENG 3014. U.S. literature by writers from Latino and Latina backgrounds. <i>Occasional.</i>			Language and Culture: PR: Graduate standing in Anthropology or C.I. Language as an integral part of human culture and behavior, focusing on cross cultural issues that affect cultural competency. <i>Occasional.</i>			Ancient Incas: PR: ANT 2000 or SYG 2000 or ANT 2100 or C.I. The ancient Inca civilization, including examination of pre-Inca cultures and modern Andeans. Uses archaeological, ethnohistorical, historical, and contemporary anthropological sources. <i>Occasional.</i>		
AML 5076	CAH-ENG	3(3,0)	ANG 5622	COS-ANTHRO	3(3,0)	ANT 3168	COS-ANTHRO	3(3,0)
American Literature: Colonial to Contemporary: PR: Graduate status or senior standing or C.I. Intended for graduate students and future teachers of America Literature, this course surveys texts produced in America from the colonial period to the present. <i>Occasional.</i>			Language, Culture and Pedagogy: PR: Graduate standing or C.I. Linguistic and cultural issues in the learning needs of students from culturally diverse populations. <i>Occasional.</i>			Maya Archaeology: An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field. <i>Occasional.</i>		
AML 5156	CAH-ENG	3(3,0)	ANG 5741	COS-ANTHRO	3(3,0)	ANT 3212	COS-ANTHRO	3(3,0)
Modern American Poetry: PR: Graduate status or senior standing or C.I. Study of trends, modes, major figures (Eliot, Pound, H.D. Lawrence, Stevens, Hart, Crane, Moore, W.C. Williams, etc.) within the Modernist movement in American poetry. <i>Occasional.</i>			Mortuary Archaeology: PR: Graduate standing or C.I. Funerary customs and human remains; basic data collection, skeletal analysis, and comparative study of mortuary ritual - ancient and modern. <i>Occasional.</i>			Peoples of the World: A comparative study of religion, family, politics, philosophy, and other elements of socio-cultural organization of pre-literate societies. <i>Fall, Spring.</i>		
ANG 5100	COS-ANTHRO	3(3,0)	ANG 5742	COS-ANTHRO	3(3,0)	ANT 3241	COS-ANTHRO	3(3,0)
Archeological Sciences: PR: Graduate standing or C.I. Field and laboratory methods routinely used in archeology and forensic archeology, including instrumentation. <i>Occasional.</i>			Problems in Forensic Anthropology: PR: Graduate standing or C.I. Current issues and topics in forensic anthropology. <i>Occasional.</i>			Magic, Ritual, and Belief: Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena. <i>Fall, Spring.</i>		
ANG 5165	COS-ANTHRO	3(3,0)	ANT 2000	COS-ANTHRO	3(3,0)	ANT 3245	COS-ANTHRO	3(3,0)
Maya Field Research: PR: Graduate standing or C.I. Practical application of method and theory during primary in-field research in the Maya area. <i>Spring.</i>			General Anthropology: An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology. <i>Fall, Spring.</i>			Native American Religions: PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples. <i>Occasional.</i>		
ANG 5166	COS-ANTHRO	3(3,0)	ANT 2000H	COS-ANTHRO	3(3,0)	ANT 3262	COS-ANTHRO	3(3,0)
Problems in Maya Studies: PR: ANG 6168 or C.I. In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies. <i>Occasional.</i>			General Anthropology Honors: PR: Permission of Honors. Extensive honors work in the field of anthropology. Expectations, requirements, and standards are greater than for standard General Anthropology. <i>Occasional.</i>			Rural Society: An introduction to rural society in the U.S. and abroad. Problems of third world development in the rural sector. <i>Occasional.</i>		
ANG 5167	COS-ANTHRO	3(3,0)	ANT 2100	COS-ANTHRO	3(3,0)	ANT 3273	COS-ANTHRO	3(3,0)
Maya Hieroglyphs: PR: ANG 6168, graduate status or senior standing, or C.I. The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture. <i>Occasional.</i>			Archaeology and the Rise of Human Culture: The evolution of human society from foraging and hunting groups to the earliest cities and states. <i>Fall.</i>			Law and Culture: An introduction to law as an organizing force in society, including a study of primitive forms of law and social control. <i>Occasional.</i>		
ANG 5228	COS-ANTHRO	3(3,0)	ANT 2410	COS-ANTHRO	3(3,0)	ANT 3302	COS-ANTHRO	3(3,0)
Maya Iconography: PR: ANG 6168 or C.I. Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features. <i>Odd Spring.</i>			Cultural Anthropology (Anthropology II): An introduction to human diversity as exemplified among various cultures and ethnic groups. <i>Even Spring.</i>			Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective. <i>Fall, Spring.</i>		
ANG 5272	COS-ANTHRO	3(3,0)	ANT 2511	COS-ANTHRO	3(3,0)	ANT 3311	COS-ANTHRO	3(3,0)
Culture, Power and Development: PR: Graduate standing or C.I. Origins and contemporary ramifications of underdevelopment and disempowerment in the world system from an anthropological perspective. <i>Occasional.</i>			The Human Species: Human biological variation in an evolutionary perspective. <i>Fall, Spring.</i>			Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast. <i>Occasional.</i>		
ANG 5307	COS-ANTHRO	3(3,0)	ANT 2511H	COS-ANTHRO	3(3,0)	ANT 3312	COS-ANTHRO	3(3,0)
Peoples and Cultures of Latin America: PR: Graduate standing or C.I. Latin American culture focusing on indigenous history, colonialism, traditional peoples, social change, and modernization. <i>Occasional.</i>			Honors The Human Species: PR: Permission of Honors. Human biological variation in an evolutionary perspective. <i>Occasional.</i>			Ethnology of North American Indians: A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition. <i>Even Spring.</i>		
ANG 5341	COS-ANTHRO	3(3,0)	ANT 3115	COS-ANTHRO	3(3,0)	ANT 3313	COS-ANTHRO	3(3,0)
Caribbean Cultures: PR: Graduate standing 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. <i>Occasional.</i>			Archaeological Method and Theory: A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports. <i>Even Fall.</i>			Indians of North America High Plains: A study of the social and cultural history of the Indians of the North American High Plains. <i>Occasional.</i>		
ANG 5437	COS-ANTHRO	3(3,0)	ANT 3142	COS-ANTHRO	3(3,0)	ANT 3314	COS-ANTHRO	3(3,0)
Anthropology of Tourism: PR: Graduate standing or C.I. Anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. <i>Occasional.</i>			Old World Prehistory: A comparative study of social evolution in Africa, Europe, and Asia from the earliest humans to the beginnings of recorded history. <i>Occasional.</i>			Indians of the Northeast Woodlands: PR: ANT 2000 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American Northeast. <i>Occasional.</i>		
ANG 5467	COS-ANTHRO	3(3,0)	ANT 3145	COS-ANTHRO	3(3,0)	ANT 3316	COS-ANTHRO	3(3,0)
Nutritional Anthropology: PR: One course in Social Sciences (min-2000-level) and one course in Biological Sciences (min 2000-level) or Consent of Instructor. Graduate status or senior standing or C.I. The biological, social, cultural, psychological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary, ecological. <i>Occasional.</i>			Archaeology of Complex Societies: Theoretical perspectives on ancient hierarchies of power. <i>Fall.</i>			Black/Seminole Relations: PR: 2000 level GEP Social Science course or C.I. Relationships forged between peoples of African origin and descent and the Seminole Indians. <i>Occasional.</i>		
			ANT 3158	COS-ANTHRO	3(3,0)	ANT 3318	COS-ANTHRO	3(3,0)
			Florida Archaeology: PR: ANT 2000 or ANT 2100 or C.I. Florida prehistory from Paleo-Indian to European contact including archaeological periods, cultural areas, sites, and artifacts. <i>Occasional.</i>			Indians of the Northwest Coast: PR: ANT 2000 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the Northwest Coast of North America. <i>Occasional.</i>		
			ANT 3163	COS-ANTHRO	3(3,0)	ANT 3319	COS-ANTHRO	3(3,0)
			Mesoamerican Archaeology: An introduction to the pre-history of Mexico. Guatemala and upper Central America from earliest times through the Spanish conquest. <i>Occasional.</i>			Anthropology of Diaspora: PR: ANT 2000 or ANT 2410 or C.I. Comparative study of sociocultural constructions of race and the processes of acculturation and resistance in African Diasporas of the New and Old Worlds. <i>Occasional.</i>		

UCF Courses and Descriptions

ANT 3320	COS-ANTHRO	3(3,0)	ANT 4144	COS-ANTHRO	3(3,0)	ANT 4516	COS-ANTHRO	3(3,0)
Indians of the Southwest: PR: ANT 2000. Native American culture types of the southwest: Navajo, Pueblo (Zuni, Hopi, Tewa), Apache (Lipan, Mescalero), and Desert Tradition (Pima, Papago, Havasupi). <i>Occasional.</i>			Prehistory of North America: PR: Any lower level course in the social sciences. The rise of North American Native culture from the earliest evidence of human occupation in the New World: e.g., the Folsom, Clovis, Sandia, etc., to the time of contact with European cultures. <i>Occasional.</i>			Human Biological Diversity: PR: ANT 2511 or BSC 2010C or C.I. Human biological variation and adaptation. <i>Occasional.</i>		
ANT 3330	COS-ANTHRO	3(3,0)	ANT 4153	COS-ANTHRO	3(3,0)	ANT 4521C	COS-ANTHRO	3(3,0)
Cultural Ecology of Amazonia: PR: Any 2000 level social science course or C.I. The cultural ecology and adaptive strategies of native Amazonians, including effects of modernization on resource use and cultural survival. <i>Occasional.</i>			North American Archaeology: PR: any lower level social science course. The cultural development of Native North Americans from prehistoric times to the period of the first European contact. <i>Occasional.</i>			Forensic Anthropology: PR: ANT 2511 or C.I. The study of human skeletal remains in relation to a legal context. <i>Occasional.</i>		
ANT 3344	COS-ANTHRO	3(3,0)	ANT 4180C	COS-ANTHRO	3(1,4)	ANT 4525C	COS-ANTHRO	4(3,1)
Puerto Rican Culture: PR: ANT 2000, or SYG 2000, or PSY 2012, or C.I. Ethnographic study of Puerto Rican culture in Puerto Rico and the U.S. Emphasis on race, class, and gender in twentieth-century Puerto Rican experiences. <i>Occasional.</i>			Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit. <i>Spring.</i>			Human Osteology: PR: ANT 2511. The scientific study of the human skeleton and the methodology and techniques involved in the anthropological assessment of skeletal remains. <i>Fall.</i>		
ANT 3358	COS-ANTHRO	3(3,0)	ANT 4184	COS-ANTHRO	3(3,0)	ANT 4528C	COS-ANTHRO	5(3,3)
Life and Death in Ancient Egypt: PR: Any 2000 level Anthropology course. Use of archaeology and physical anthropology to examine the lives and death of both common citizens and royalty in Ancient Egypt (3200 BCE-AD 600). <i>Occasional.</i>			Mortuary Archaeology: PR: ANT 2000, or ANT 2100, or ANT 2511 or C.I. Archaeological interpretations of death: basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern. <i>Occasional.</i>			Advanced Forensic Anthropology: PR: ANT 4521C. Advanced laboratory methods in forensic anthropology, including skeletal analysis and the application of archaeological techniques to the recovery of human remains. <i>Even Spring.</i>		
ANT 3362	COS-ANTHRO	3(3,0)	ANT 4266	COS-ANTHRO	3(3,0)	ANT 4586	COS-ANTHRO	3(3,0)
Peoples of Southeast Asia: PR: ANT 2000 or C.I. A survey of the peoples of Vietnam, Cambodia, Laos and Thailand from the anthropological perspective. <i>Occasional.</i>			Economic Anthropology: Production, Consumption, and Exchange: PR: ANT 2000, ECO 2013, PSY 2012, or SYG 2000. Issues, methods, and concepts of economic anthropology. <i>Occasional.</i>			Human Origins: PR: ANT 2511. The fossil evidence for human evolution from Miocene hominoids through the australopithecines and the earliest members of the genus Homo. <i>Spring.</i>		
ANT 3363	COS-ANTHRO	3(3,0)	ANT 4308	COS-ANTHRO	3(3,0)	ANT 4702	COS-ANTHRO	3(3,0)
Anthropology of Japan: An examination of Japanese culture and its contemporary behavioral and organizational patterns by drawing upon archaeology, cultural history, linguistics, cultural anthropology, and social organization. <i>Occasional.</i>			Gender Issues in Latin America: PR: Completion of a lower-level social science course or its equivalent. Issues of gender in Latin America through an anthropological approach, both theoretical and practical, with special attention to women's lives. <i>Occasional.</i>			Culture, Power and Development: PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. Anthropological perspective on origins and contemporary ramifications of underdevelopment and disempowerment in the world system. <i>Occasional.</i>		
ANT 3450	COS-ANTHRO	3(3,0)	ANT 4332	COS-ANTHRO	3(3,0)	ANT 4802	COS-ANTHRO	3(3,0)
Living in the USA: Anthropological Perspectives: PR: ANT 2000 or SYG 2000 or PSY 2012 or C.I. Ethnographic study of diverse experiences of life in the United States. Special focus on class, race, gender, citizenship, generation, and religion. <i>Occasional.</i>			People and Cultures of Latin America: PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. History and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization. <i>Odd Fall, Spring.</i>			Ethnographic Field Methods: PR: ANT 2000, ANT 2410, SYG 2000, PSY 2012, or C.I. Procedures and principles of ethnographic research methods. <i>Occasional.</i>		
ANT 3541	COS-ANTHRO	3(3,0)	ANT 4340	COS-ANTHRO	3(3,0)	ANT 4824	COS-ANTHRO	9(9,0)
Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments. <i>Spring.</i>			Caribbean Cultures: PR: ANT 2000, ANT 2410, SYG 2000, PSY 2012, or C.I. Comparative study of peoples and cultures of the Anglophone, Francophone, Hispanophone, and Caribbean. <i>Occasional.</i>			Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork. <i>Spring.</i>		
ANT 3550	COS-ANTHRO	3(3,0)	ANT 4352	COS-ANTHRO	3(3,0)	APA 3471	BA-ACCT	3(3,0)
Primateology: PR: ANT 2511 or C.I. Study of species from the Order Primates, including their morphology, ecology, behavior, and geographic distribution. <i>Occasional.</i>			African Societies and Cultures: PR: ANT 2000 or SYG 2000 or C.I. Anthropological survey of Africa examining the social, cultural, and economic diversity of the continent over time. <i>Occasional.</i>			Accounting for Engineers: PR: Not open to business majors. General Accounting principles and practice, cost accounting, budgeting, and control techniques. Not usable for BSBA degree credit. <i>Occasional.</i>		
ANT 3640	COS-ANTHRO	3(3,0)	ANT 4354	COS-ANTHRO	3(3,0)	ARA 1120	CAH-LANG	4(4,1)
Language and Culture: PR: Sophomore standing. The study of language in a non-western setting: language and behavior; language and perception. <i>Spring.</i>			Postcolonial Africa: PR: ANT 2000 or SYG 2000 or C.I. Cultural change and continuity in contemporary Africa, ethnography of postcolonial social and cultural issues including globalization, health, economics, peace and stability. <i>Occasional.</i>			Elementary Arabic Language and Civilization I: Introduces the student to Arabic language skills. Open only to students with no experience in the language. <i>Fall.</i>		
ANT 3701	COS-ANTHRO	3(3,0)	ANT 4438	COS-ANTHRO	3(3,0)	ARA 1120H	CAH-LANG	4(4,1)
Applied Anthropology: PR: ANT 2000 or C.I. Application of anthropological methods to current human problems such as the environment, migration, globalization and health. <i>Occasional.</i>			Anthropology of Tourism: PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. Social theory of tourism; anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. <i>Occasional.</i>			Honors Elementary Arabic Language and Civilization I: PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level content. <i>Occasional.</i>		
ANT 3949	COS-ANTHRO	0(0,8)	ANT 4462	COS-ANTHRO	3(3,0)	ARA 1121	CAH-LANG	4(4,1)
Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. Graded S/U. May be repeated for credit. <i>Occasional.</i>			Medical Anthropology: PR: ANT 2000 or ANT 2511 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications. <i>Occasional.</i>			Elementary Arabic Language and Civilization II: PR: ARA 1120 or C.I. Continuation of ARA 1120. <i>Spring.</i>		
ANT 4034	COS-ANTHRO	3(3,0)	ANT 4467	COS-ANTHRO	3(3,0)	ARA 1121H	CAH-LANG	4(4,1)
History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology. <i>Spring.</i>			Nutritional Anthropology: PR: One 2000 level course in social sciences and one 2000 level course in biological sciences or C.I. Psychological, biological, social, cultural, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, ecological and evolutionary. <i>Occasional.</i>			Honors Elementary Arabic Language and Civilization II: PR: Permission of Honors. Continuation of ARA 1120H. Honors level content. <i>Occasional.</i>		
ANT 4101	COS-ANTHRO	3(3,0)				ARA 2200	CAH-LANG	3(3,1)
Archaeological Sciences: PR: ANT 2511, or ANT 2100, or C.I. Methods and instrumentation routinely used in archaeology and forensic archaeology. <i>Spring.</i>						Intermediate Arabic Language and Civilization I: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level. <i>Occasional.</i>		

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<p>ARA 2201 CAH-LANG 3(3,0) Intermediate Arabic II: PR: ARA 2200 (Intermediate Arabic I) or equivalent or C.I. Continuation of ARA 2200 with emphasis on Arabic cultures. <i>Fall, Spring.</i></p>	<p>ARE 5255 ED-TLP 3(2,1) Arts in Recreation: Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas. <i>Occasional.</i></p>	<p>ARH 3631 CAH-AAS 3(3,0) African-American Art: PR: ENC 1102 or C.I. Historical survey of art produced by working artists of African heritage and representations of African-American life by these and other artists. <i>Occasional.</i></p>
<p>ARE 2011 ED-CFCS 3(3,0) Early Childhood Art and Creativity: An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented. <i>Occasional.</i> M&S fee: \$5.00</p>	<p>ARE 5359 ED-TLP 4(4,0) Teaching Art K-12: PR: Admission to M.A. 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. <i>Occasional.</i> M&S fee: \$5.00</p>	<p>ARH 3632H CAH-ART 3(3,0) Honors: African American Arts Seminar: PR: Permission of Honors. An exploration of traditional, academic, and contemporary urban African American visual arts. <i>Occasional.</i></p>
<p>ARE 3944 CAH-ART 3(2,3) Community Arts Practicum: PR: C.I. A supervised experience for students to facilitate art programming in a variety of community settings. <i>Occasional.</i></p>	<p>ARE 5454 ED-TLP 3(3,0) Studio Experiences in Art Education: PR: 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. <i>Spring.</i> M&S fee: \$5.00</p>	<p>ARH 3670 CAH-ART 3(3,0) 20th Century Latin American Art: PR: ARH 2050 and ARH 2051 or C.I. Art of the modern era (1820 to 1980) in the Caribbean and South America; issues and characteristics of art as they reflect the cultural evolution of Latin America. <i>Occasional.</i></p>
<p>ARE 4250 ED-TLP 3(3,0) Art for Exceptionalities: PR: EDG 4323 and at least junior standing or C.I. Concepts, principles, and methods of integrating art processes into the education of students with physical, emotional, and mental disabilities. <i>Occasional.</i></p>	<p>ARE 5648 ED-TLP 3(3,0) Contemporary Visual Arts Education: PR: ARE 4443 or C.I. Continued study of current programs and innovations in public school Visual Arts Programs. <i>Occasional.</i></p>	<p>ARH 3673 CAH-ART 3(3,0) Modern Art of Mexico: PR: ARH 2050 or ARH 2051 or C.I. Modern art of Mexico from the Mexican Academy post-independence to the 1980's. <i>Occasional.</i></p>
<p>ARE 4262 CAH-ART 3(3,0) Methods in Art Administration: PR: ARH 3820. Theories and methodologies for designing, implementing and administering art programs for a variety of populations. <i>Occasional.</i></p>	<p>ARH 2050 CAH-ART 3(3,0) History of Western Art I: Painting, sculpture and architecture from the Prehistoric Era through the Renaissance. <i>Occasional.</i></p>	<p>ARH 3674 CAH-ART 3(3,0) Latin American Popular Visual Culture: PR: ANT 4332 or C.I. Latin American popular culture beyond "fine art," produced in Latin America, the United States, and the Caribbean. <i>Odd Spring.</i></p>
<p>ARE 4313 ED-TLP 1(1,0) Art in the Elementary School: PR: EDF 2005; CR: MUE 3210, HLP 4722, RED 4519, MAE 4326, and EDE 3942. Basic principles, purposes, scope and sequence; organization for instruction; evaluation of activities; selected art experiences. <i>Fall, Spring.</i> M&S fee: \$5.00</p>	<p>ARH 2050H CAH-ART 3(3,0) Honors History of Western Art I: PR: Permission of Honors. Painting, sculpture and architecture from the Prehistoric Era through the Renaissance, with honors content. <i>Occasional.</i></p>	<p>ARH 3683 CAH-ART 3(3,0) Southern Folk Arts: PR: Junior Standing or C.I. This course will explore contemporary issues related to folk art including definition, collecting, marketing, art criticism, tradition, innovation, and its relationship to the so-called fine arts and popular arts. <i>Occasional.</i></p>
<p>ARE 4351 ED-TLP 3(2,1) Teaching Art in the Elementary School: PR: EDF 4214 and EDG 4323. Transition from university art studio practices to public school teaching of art. Organizing, designing and analyzing art experiences, activities and classroom environments for the elementary school classroom. <i>Fall.</i> M&S fee: \$5.00</p>	<p>ARH 2051 CAH-ART 3(3,0) History of Western Art II: Painting, sculpture and architecture from the Baroque through the 20th century. <i>Fall, Spring.</i></p>	<p>ARH 3710 CAH-ART 3(3,0) History of Photography I: PR: Junior Standing or C.I. History of still photography from its earliest inception to 1900. The content of this course is designed for art majors. <i>Occasional.</i></p>
<p>ARE 4352 ED-TLP 3(2,1) Teaching Art in the Secondary School: PR: EDF 4214, and EDG 4323. Transition from university art studio practices to High School Teaching of art. Organizing, designing and analyzing art experiences and activities appropriate for junior high and high school children. Examination of teaching methodology relative to the high school and junior high school settings. <i>Spring.</i> M&S fee: \$5.00</p>	<p>ARH 2051H CAH-ART 3(3,0) Honors History of Western Art II: PR: Permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level content. <i>Occasional.</i></p>	<p>ARH 3711 CAH-ART 3(3,0) History of Photography II: PR: Junior Standing or C.I. History of still photography from the early 20th century to the present. The content of this course is designed for art majors. <i>Occasional.</i></p>
<p>ARE 4356 ED-TLP 3(3,1) Teaching Art Appreciation & Criticism in the Classroom: PR: ARH 2050 and ARH 2051. An examination of art appreciation programs and concepts toward planning curriculum for the study of art history, popular art, art criticism, and aesthetics for specific educational settings. <i>Fall.</i> M&S fee: \$5.00</p>	<p>ARH 2500 CAH-ART 3(3,0) History of Non-Western Art: Major visual arts in various non-Western cultures. <i>Fall, Spring.</i></p>	<p>ARH 3720 CAH-ART 3(3,0) History of Prints: PR: ARH 2050 and ARH 2051 or C.I. History of printmaking in the Western world, surveying works by the "great printmakers." <i>Occasional.</i></p>
<p>ARE 4453 ED-TLP 3(3,0) Studio Experiences in Art Education: PR: Completion of all Art Education Program Prerequisites 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. <i>Spring.</i> M&S fee: \$5.00</p>	<p>ARH 3454 CAH-ART 3(3,0) Happenings and Conceptual Art: PR: Junior Standing or C.I. Aesthetic and social significance of "Total Art" in its attempt to break down customary distinctions between life and art. <i>Occasional.</i></p>	<p>ARH 3820 CAH-ART 3(3,0) Visual Arts Administration Vitas: PR: Junior Standing or C.I. Grant applications; Personnel; copyright laws; museum practices, etc. <i>Occasional.</i></p>
<p>ARE 4945 CAH-ART 12(0,12) Community Arts Internship: PR: C.I. An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience. <i>Occasional.</i></p>	<p>ARH 3471 CAH-ART 3(3,0) Art in the Last 25 Years: PR: ARH 2050 and ARH 2051 or C.I. A seminar for upper-level art students to examine current trends in the visual arts. <i>Occasional.</i></p>	<p>ARH 4170 CAH-ART 3(3,0) Greek & Roman Art: PR: ARH 2050 or HUM 3431 and ENC 1102 or C.I. A study of the art and architecture of the ancient civilizations of the Mediterranean, comprising Greece, Etruria, and Rome. <i>Occasional.</i></p>
<p>ARE 5251 ED-TLP 3(2,1) Art for Exceptionalities: Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped. <i>Occasional.</i></p>	<p>ARH 3520 CAH-ART 3(3,0) African Art: PR: Junior status, ARH 2050, or C.I. Art objects produced in Africa and African sites; with some consideration of arts of the African Diaspora. <i>Occasional.</i></p>	<p>ARH 4200 CAH-ART 3(3,0) Medieval Art: PR: ARH 2050 and ARH 2051. Medieval Art from the 6th through 14th centuries, including painting, architecture, sculpture and illuminated manuscripts. <i>Occasional.</i></p>
	<p>ARH 3570 CAH-ART 3(3,0) Ceramics of the Muslim World: PR: ARH 2050 or C.I. Islamic Art and the stylistic and technical characteristics of the period, in contrast to pre-Islamic or other civilizations such as the ancient Greeks, Egyptians, Babylonians, and Chinese. <i>Occasional.</i></p>	<p>ARH 4310 CAH-ART 3(3,0) Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. Italian Art and architecture from 1300 to 1600. <i>Occasional.</i></p>
	<p>ARH 3610 CAH-ART 3(3,0) American Art: PR: ARH 2050 and ARH 2051 or C.I. Surveys American Art to 1900. Leading artists are identified and representative examples of their work are discussed within the context of major themes, patterns, sources. <i>Occasional.</i></p>	<p>ARH 4350 CAH-ART 3(3,0) Baroque Art: PR: ARH 2050 and ARH 2051 or C.I. A study of European Art in the 17th and 18th centuries. <i>Occasional.</i></p>

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ARH 4430	CAH-ART	3(3,0)	ART 2300C	CAH-ART	3(2,4)	ART 3175	CAH-ART	3(3,0)
19th Century Art: PR: ARH 2050 and ARH 2051. A survey of the trends and developments in art during the 19th century, including the art of America and of Western Europe. <i>Occasional.</i>			Drawing Fundamentals I: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Drawing as a means of formal organization. Introduction to problems in drawing methods and media. Emphasis on description techniques. <i>Fall, Spring.</i> M&S fee: \$10.00			Advanced Issues in Contemporary Book Arts: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and ART 3170. Drawing, printmaking, and painting combined with guided research at the Orlando Museum of Arts culminating in a handbound Visual Book. <i>Fall.</i>		
ARH 4450	CAH-ART	3(3,0)	ART 2300H	CAH-ART	3(2,4)	ART 3176C	CAH-ART	3(2,4)
20th Century Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of the art from Fauvism, Futurism, Cubism to the art of the present. <i>Occasional.</i>			Honors Drawing Fundamentals I: PR: ART 2820 and Consent of Honors. Priority given to students whose major requires this course. Drawing as a means of formal organization. Introduction to problems in drawing methods and media. Emphasis on description techniques. With Honors content. <i>Occasional.</i> M&S fee: \$10.00			The Illuminated Book: PR: ART 2201C, ART 2300C, ART 2300C, ART 2301C, and ART 3170. The creation of visual, illuminated responses to language from stories, fables, poetry, and books using a variety of media. <i>Occasional.</i>		
ARH 4545	CAH-ART	3(3,0)	ART 2301C	CAH-ART	3(2,4)	ART 3332C	CAH-ART	3(2,4)
Art of India: PR: Junior Standing or C.I. Art and architecture of India from prehistoric times through the Gupta, Rajput, and Muslim periods. <i>Occasional.</i>			Drawing Fundamentals II: PR: ART 2300C and ART 2820 or C.I. Priority given to students whose major requires this course. Continuation of ART 2300C. <i>Fall, Spring.</i> M&S fee: \$10.00			Intermediate Drawing: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Intermediate problems in drawing, with emphasis on the human form. <i>Fall, Spring.</i>		
ARH 4655	CAH-ART	3(3,0)	ART 2394	CAH-ART	3(3,0)	ART 3433C	CAH-ART	3(2,4)
Meso American Art: PR: Junior Standing or C.I. A survey of the art of Mexico and Central America, from the Pre-Columbians, through the Spanish Colonial, to the 20th century. <i>Occasional.</i>			Drawing: Computer as a Medium: Object drawing, using the computer and drawing stylus as a medium. <i>Occasional.</i>			Screenprinting: PR: ART 2201C, ART 2300C, ART 2400C. Techniques of waterbase screenprinting, including digital/photo processes and practical applications of screenprinting as a means for image making. <i>Occasional.</i>		
ARH 4723	CAH-ART	3(3,0)	ART 2400C	CAH-ART	3(2,4)	ART 3504C	CAH-ART	3(2,4)
Commercial Book Design and Publishing: PR: ART 2820 and Junior standing or C.I. Art and design elements are analyzed and interpreted from a historical perspective. <i>Fall.</i>			Beginning Printmaking: Basic elements and techniques of printmaking covered. Relief, intaglio, and lithography. Assignments include practical application of printmaking as drawing tool. <i>Occasional.</i>			Intermediate Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Reinforces and extends methods and materials content of ART 2500C, and deals with issues of figurative painting. <i>Fall, Even Spring.</i> M&S fee: \$15.00		
ARH 4800	CAH-ART	3(3,0)	ART 2500C	CAH-ART	3(2,4)	ART 3616C	CAH-ART	3(3,0)
Theory and Criticism of the Visual Arts: PR: ARH 2050 and ARH 2051 or C.I. Explores criteria of art criticism and theoretical approaches to art meaning through time; art examples from various periods/cultures. <i>Occasional.</i>			Beginning Painting: PR: ART 2300C, ART 2201C, or C.I. Methods and materials of the painter. Introduction to the problems in painting. <i>Occasional.</i> M&S fee: \$15.00			Animation Production Methods: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit. <i>Occasional.</i> M&S fee: \$15.00		
ARH 4892	CAH-ART	3(3,0)	ART 2701C	CAH-ART	3(2,4)	ART 3618C	CAH-ART	3(3,0)
Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of women artists from ancient times to the present as well as a study of the role Aesthetics and Ideology have played in determining representations of women in art. <i>Occasional.</i>			Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2300C, ART 2301C. <i>Odd Fall.</i> M&S fee: \$20.00			Post-Production Design: PR: Accepted into Animation program. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop software. <i>Occasional.</i>		
ARH 5897	CAH-ART	3(3,0)	ART 2754C	CAH-ART	3(2,4)	ART 3643C	CAH-ART	3(2,4)
Advanced Seminar in Art History: PR: ARH 2050 and ARH 2051 or C.I. Research methods on various topics including: major artist, monument, cultural period or theme. <i>Occasional.</i>			Beginning Ceramics: PR: ART 2201C or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery. <i>Fall, Odd Spring.</i> M&S fee: \$35.00			Digital Effects & Compositing: PR: Animation major and FIL 3286C. Special effects and compositing for computer animation and film, focusing on the use of After Effects, Premier and Photoshop or comparable software. <i>Fall, Spring.</i> M&S fee: \$45.00		
ART 2130C	CAH-ART	3(3,0)	ART 2820	CAH-ART	3(3,0)	ART 3737	CAH-ART	3(3,0)
Fibers & Fabrics: Design and production training in surface design, floor loom weaving and fiber sculpture. <i>Occasional.</i> M&S fee: \$5.00			Art as Interface: An overview of art department specializations, and selected historical and theoretical information influencing the art curriculum. Examination of aesthetic characteristics shared by the various disciplines and how knowledge of these data is used by the profession to share information with the community. <i>Fall, Spring.</i>			Narrative Sculpture: PR: ART 2201C, ART 2203C, ART 2300C, and ART 2301C. Aesthetics of sculpture incorporating narrative content and referencing historical contexts. May be repeated for credit. <i>Fall.</i>		
ART 2160C	ED-TLP	3(2,3)	ART 2820H	CAH-ART	3(3,0)	ART 3760C	CAH-ART	3(2,4)
Metals, Woods, Leathers and Stones: Processes and techniques of production. <i>Occasional.</i>			Honors Art as Interface: PR: Consent of Honors. An overview of Art department specializations, and selected historical and theoretical information influencing the art curriculum. Aesthetic characteristics shared among the disciplines and their use by the profession. With Honors content. <i>Occasional.</i>			Intermediate Ceramics: PR: ART 2201C, ART 2203C, ART 2300C and ART 2301C. Continuation of ceramic processes. <i>Fall, Spring.</i> M&S fee: \$35.00		
ART 2201C	CAH-ART	3(2,4)	ART 3161	CAH-ART	3(3,0)	ART 3764C	CAH-ART	3(2,4)
Design Fundamentals-Two Dimensional: PR: ART 2820. Priority given to students whose major requires this course. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory. <i>Fall, Spring.</i> M&S fee: \$15.00			Mixed Media: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Concepts and techniques involving the creation of art objects by integrating painting, sculpture, drawing, design, and art history. <i>Occasional.</i>			Ceramic Handbuilding I: PR: Junior standing. Application of a variety of ceramic handbuilding procedures, including design, glaze application and firing process. <i>Occasional.</i> M&S fee: \$35.00		
ART 2201H	CAH-ART	3(2,4)	ART 3170	CAH-ART	3(3,0)	ART 3833C	CAH-ART	3(4,2)
Honors Design Fundamentals-Two Dimensional: PR: ART 2820. Priority given to students whose major requires this course. Permission of Honors. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory with Honors content. <i>Occasional.</i>			Book Binding: PR: ART 2201C, ART 2203C, and ART 2820. Basic book binding techniques, methods, structures, and production of books. <i>Fall.</i>			Processes and Ideas in Art: PR: Junior Standing. This course emphasizes the development of individual creativity and the generation of new insights concerning artistic expression. These "formative activities" must be manifested by students in the form of small sculptures and/or other forms of creativity. <i>Occasional.</i>		
ART 2203C	CAH-ART	3(2,4)	ART 3171	CAH-ART	3(3,0)	ART 3950	CAH-ART	0(0,0)
Design Fundamentals-Three Dimensional: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Basic three-dimensional design using the various sculptural media. <i>Fall, Spring.</i> M&S fee: \$15.00			Materials for Artist Books: PR: ART 2201C, ART 2203C, and ART 3170. Production of materials used for an artist in the creation of books. <i>Fall.</i>			Portfolio Review: PR: C.I. Review of relevant artistic works in a student's portfolio. Graded S/U. <i>Fall, Spring.</i>		

<p>ART 4132C CAH-ART 3(2,4) Advanced Fiber And Fabrics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2130C, and a satisfactory portfolio review or C.I. Textile design and production, including non-loom weaving processes. May be repeated for credit. <i>Occasional.</i> M&S fee: \$5.00</p>	<p>ART 4783C CAH-ART 3(2,4) Advanced Ceramics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$34.99</p>	<p>ART 5698 CAH-ART 3(3,0) Concourse I: PR: ART 5910 and ART 5280C and ART 5694, or C.I. Digital reproduction of studio works. <i>Fall.</i></p>
<p>ART 4172 CAH-ART 3(3,0) Book Repair and Restoration: PR: ART 2201C, ART 2203C, and ART 3170. Mending, repairing, and rebinding books from the Library and Special Collections. <i>Fall.</i></p>	<p>ART 4786C CAH-ART 3(2,4) Ceramic Raw Material: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. An in-depth understanding of the singular and diverse properties of clay and glaze materials. <i>Occasional.</i> M&S fee: \$35.00</p>	<p>ART 5745 CAH-ART 3(3,0) Physical and Virtual Sculpture: PR: Acceptance to MFA in Studio Art and the Computer or C.I. A course exploring historical (tactile) and contemporary (virtual) approaches to the creation of 3D sculptural objects. <i>Occasional.</i></p>
<p>ART 4173 CAH-ART 3(3,0) The Artist Book: PR: ART 2201C and ART 2203C. Course will explore the definition of book from traditional hand-made to contemporary artist book. Students will redefine its elements, structure and content and be exposed to binding and printing methods in book production. <i>Fall, Even Spring.</i> M&S fee: \$25.00</p>	<p>ART 4935 CAH-ART 3(3,1) BFA Exhibit/Seminar: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, must complete Studio course for BFA, and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. Exhibition. <i>Spring.</i> M&S fee: \$15.00</p>	<p>ART 5811C CAH-ART 3(3,1) The Professional Practice of Art: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C- (no graduate level prerequisite), graduate status or senior standing, or C.I. Seminar class on political information pertaining to professional practices in the art world. Overview of inventory processing, accounting, and the marketing of art. <i>Fall.</i> M&S fee: \$15.00</p>
<p>ART 4174 CAH-ART 3(3,0) The Printed Book: PR: ART 2201C, ART 2203C, ART 2300C, and ART 2301C. Aesthetics of the printed book including binding techniques to make artist books. <i>Fall.</i></p>	<p>ART 4945 CAH-ART 6(0,6) C.R.E.A.T. Project: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4288C, and a satisfactory portfolio review or C.I. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry. <i>Occasional.</i></p>	<p>ART 5910 CAH-ART 3(3,0) Studio Concentration I: PR: 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. <i>Fall, Spring.</i></p>
<p>ART 4226C CAH-ART 3(3,3) Post Production for Animators: PR: FIL 3287C. Concepts and tools for finishing computer and traditional animations on film and video. Emphasis on compositing tools to combine elements in a finished animation. <i>Occasional.</i></p>	<p>ART 4954 CAH-ART 3(3,0) Scotland Study Abroad: PR: ART 2820, ART 2201C, ART 2301C or C.I. Study abroad in Edinburgh, Scotland. May be repeated for credit. <i>Occasional.</i></p>	<p>ART 5934 CAH-ART 3(3,0) Concepts of Contemporary Art: PR: Graduate standing or C.I. Current issues in contemporary international art. Graded S/U. <i>Occasional.</i></p>
<p>ART 4320C CAH-ART 3(2,4) Advanced Drawing: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3332C. May be repeated for credit. <i>Fall, Spring.</i></p>	<p>ART 4971 CAH-ART 3(2,4) Senior Thesis: PR: Senior Standing, Art major, and C.I. A capstone thesis for Art Animation majors. May be repeated for credit. <i>Occasional.</i> M&S fee: \$45.00</p>	<p>ART 5941 CAH-ART 1(1,0) Graduate Practicum I: PR: 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. <i>Occasional.</i></p>
<p>ART 4402C CAH-ART 3(2,4) Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced process in printmaking. May be repeated for credit. <i>Even Fall, Spring.</i> M&S fee: \$30.00</p>	<p>ART 5109C CAH-ART 3(2,4) Multi-Cultural Crafts Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, graduate status or senior standing, or C.I. The content of this course will include an appreciation for and the production of Western and Non-Western art forms. <i>Occasional.</i></p>	<p>ASH 3222 CAH-HIST 3(3,0) Islam and Its Empires: PR: Junior standing or C.I. History of the Middle East and North Africa from the birth of Islam to the 16th century. <i>Occasional.</i></p>
<p>ART 4505C CAH-ART 3(2,4) Advanced Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>ART 5280C CAH-ART 3(3,3) Serial Content & Classic Form I: PR: Admission to MFA. Studio course exploring serial imaging history, pictographs, alphabet development, typographic design, and the computer as sequenced design concepts and tools. <i>Fall.</i></p>	<p>ASH 3223 CAH-HIST 3(3,0) The Modern Middle East: PR: Junior standing or C.I. History of the Middle East and North Africa from the 16th century to the present. <i>Occasional.</i></p>
<p>ART 4634C CAH-ART 3(3,1) Web Art: PR: ART 2820 or C.I. The Web as a medium for art. <i>Occasional.</i></p>	<p>ART 5284 CAH-ART 3(3,0) Design Theory and Methods: PR: Admission to MFA or C.I. Introduction to semiotic theory, communication theory, perceptual codes, human factors and visual rhetoric. <i>Fall.</i></p>	<p>ASH 4304 CAH-HIST 3(3,0) Women in China: PR: AMH 2010 and AMH 2020, or EUH 2000 and EUH 2001, or WOH 2012 and WOH 2022. Historical changes and continuities in experiences of Chinese women during the traditional period, the modern era and contemporary times. <i>Occasional.</i></p>
<p>ART 4644 CAH-ART 3(3,0) Books Without Books: PR: ART 2201C, ART 2203C, ART 2300C, and ART 2301C. The use of technology for alternative presentation of sequential ideas in space and time. May be repeated for credit. <i>Fall.</i></p>	<p>ART 5670C CAH-ART 3(2,4) Digital Illustration: CR: ART 6683C. Methods and media effects usually associated with traditional illustration in a digital platform. <i>Spring.</i></p>	<p>ASH 4402 CAH-HIST 3(3,0) History of Chinese Civilization: PR: EUH 2000 and EUH 2001, or WOH 2012 and WOH 2022. Chinese history from its pre-historical genesis until the 18th century. <i>Occasional.</i></p>
<p>ART 4710C CAH-ART 3(2,4) Advanced Sculpture: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$30.00</p>	<p>ART 5694 CAH-ART 3(3,0) Crosscultural Electronic Art & Design: PR: Admission to MFA. Explores digital/electronic art and technology from mid 20th century to present. Explores key electronic artists and issues of the "ars electronica" into the present. <i>Spring.</i></p>	<p>ASH 4404 CAH-HIST 3(3,0) China in 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. The Mongols in China; coming of the Europeans; social structure; Communist movement; Japanese aggression. <i>Occasional.</i></p>
<p>ART 4765C CAH-ART 3(2,4) Ceramic Handbuilding II: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2754C, and a satisfactory portfolio review or C.I. Technical skills in manipulating form, function, volume, color and surface texture. <i>Occasional.</i> M&S fee: \$35.00</p>	<p>ART 5695 CAH-ART 3(3,0) Web Art I: PR: Admission to MFA. Students will explore the web and experiment with pertinent software, as well as design and implement websites. Projects will be determined at the outset of each semester. <i>Spring.</i></p>	<p>ASH 4442 CAH-HIST 3(3,0) Modern Japan, 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. A survey of the Tokugawa Shogunate; Western contact in the 19th century; World War I; Japanese militarism; World War II; and U.S. occupation. <i>Occasional.</i></p>
<p>ART 4780C CAH-ART 3(2,4) Kiln Design and Building: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, ART 4783C, and a satisfactory portfolio review or C.I. The design and construction of kilns, use of refractory materials, and the theory of efficient fuel combustion. <i>Occasional.</i> M&S fee: \$35.00</p>	<p>ART 5696 CAH-ART 3(3,0) Art, Design and Human Interactions: PR: Admission to MFA. 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. <i>Spring.</i></p>	<p>ASH 5227 CAH-HIST 3(3,0) The Arab-Israeli Conflict: PR: Graduate status or senior standing or C.I. This course examines the history of the Arab-Israeli conflict, placing particular emphasis on its origins in 19th century imperialism and Zionism. <i>Occasional.</i></p>

UCF Courses and Descriptions

ASH 5408	CAH-HIST	3(3,0)	BCH 4053H	COS-CHEM	3(3,0)	BOT 4686C	COS-BIOL	4(3,3)
Colloquium in Modern China: PR: 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. <i>Occasional</i> .			Honors Biochemistry I: PR: CHM 2211 and consent of Honors. Proteins, carbohydrates, nucleic acids, enzymes and their effect on biochemical systems, and inter-relationship of intermediary metabolism. With Honors content. <i>Occasional</i> .			Conservation and Management of Native Plants: PR: BOT 4713C, PCB 3044 and/or BOT 4503 or C.I. Identification, conservation, propagation and management of Florida rare, endangered, indicator or reclamation species. <i>Occasional</i> .		
AST 2002	COS-PHYS	3(3,0)	BCH 4054	COS-CHEM	3(3,0)	BOT 4713C	COS-BIOL	5(3,6)
Astronomy: PR: High school algebra or MAC 1105. Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. <i>Fall, Spring</i> .			Biochemistry II: PR: BCH 4053. Continuation of BCH 4053. <i>Spring</i> .			Plant Taxonomy: PR: BSC 2010C and BSC 2011C, or C.I. Systematic classification and identification of vascular plants, with emphasis on the flora of peninsular Florida. <i>Occasional</i> . M&S fee: \$45.00		
AST 2002H	COS-PHYS	3(3,0)	BCH 4103L	COS-CHEM	2(0,6)	BOT 5485C	COS-BIOL	3(2,3)
Honors Astronomy: PR: Permission of Honors. Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. Honors level content. <i>Occasional</i> .			Biochemical Methods: PR: BCH 4053. A laboratory course stressing the application of the chemical arts to the separation, identification, and quantification of materials of biological significance. <i>Spring</i> . M&S fee: \$45.00			Terrestrial Cryptogams: PR: BOT 4303C, graduate status or senior standing, or C.I. A lecture-laboratory survey course on the biodiversity and classification of terrestrial-cryptogams (bryophytes, ferns, and fern allies) with special emphasis on those found in Florida. <i>Occasional</i> . M&S fee: \$15.00		
AST 2002L	COS-PHYS	1(0,3)	BME 5572	ECS-ECE	3(3,0)	BSC 1005	COS-BIOL	3(3,0)
Astronomy Lab: CR: AST 2002. Laboratory experiments covering selected topics in astronomy related to AST 2002. <i>Occasional</i> . M&S fee: \$9.00			Biomedical Nanotechnology: PR: EEL 3306 or C.I. Human Physiology, Bioelectric Phenomena and Neurons, Nanoelectronics for fabrication of biochips for human biomedical applications, self-assembly, bioelectronics, moral and ethical issues. <i>Occasional</i> .			Biological Principles: A study of various biological factors which affect the health and survival of man in modern society. Designed for non-majors. <i>Fall, Spring</i> .		
AST 2720L	COS-PHYS	1(0,2)	BOT 3018C	COS-BIOL	3(1,2)	BSC 1005H	COS-BIOL	3(3,0)
Astronomy Techniques: PR: AST 2002. Introduction to basic astronomical equipment, observing/recording techniques, safety issues, and security practices needed during Public Viewing Nights at the Robinson Observatory. <i>Fall, Spring</i> .			Culinary Botany Across the Cultures: PR: BOT 3800, Junior standing, or C.I. Cultural food traditions and the connections between plants, people and health; examines the preparation methods that enhance the nutritional values. <i>Occasional</i> . M&S fee: \$9.50			Biological Principles-Honors: PR: Permission of Honors. Biological factors that affect dependence on the environment: the role of human population preserving ecological integrity. <i>Occasional</i> .		
AST 3110	COS-PHYS	3(3,0)	BOT 3152C	COS-BIOL	3(1,4)	BSC 1005L	COS-BIOL	1(0,2)
Solar System Astronomy: PR: AST 2002, PHY 2053C. Interdisciplinary approach to the dynamics of the Solar System through application of Physics, Atmospheric Science, Chemistry and Geology. <i>Even Fall</i> .			Local Flora: PR: BSC 2010C and BSC 2011C, or C.I. Recognition and identification of Florida higher plants, especially those common to central Florida, stressing environmental and ethnobotanical significance. Weekend field trips may be required. <i>Occasional</i> .			Biological Principles Laboratory: CR: BSC 1005. The laboratory to accompany BSC 1005. <i>Fall, Spring</i> . M&S fee: \$15.00		
AST 3211	COS-PHYS	3(3,0)	BOT 3800	COS-BIOL	3(3,0)	BSC 1050	COS-BIOL	3(3,0)
Stellar Astrophysics: PR: AST 2002, PHY 2053C. The physics and dynamics of stars, including star formation and stellar evolution. <i>Occasional</i> .			Ethnobotany: PR: BSC 2011C or C.I. Historical and modern uses of plants economically important in various cultures. <i>Spring</i> .			Biology and Environment: Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Designed for non-majors. <i>Occasional</i> .		
AST 3402	COS-PHYS	3(3,0)	BOT 3820C	COS-BIOL	3(2,1)	BSC 1050H	COS-BIOL	3(1,4)
Galaxies and Cosmology: PR: AST 2002, PHY 2053C. Study of the different types of galaxies, their evolution, their relationship to active galaxies and quasars, and the evolution of the universe. <i>Odd Fall</i> .			Plants and the Urban Environment: PR: Junior standing or C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. For non-majors only. <i>Occasional</i> . M&S fee: \$15.00			Biology and Environment-Honors: PR: Permission of Honors. Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Field trips required. Designed for Honors non-majors. <i>Occasional</i> .		
AST 3722C	COS-PHYS	3(3,0)	BOT 4156C	COS-BIOL	4(2,6)	BSC 1050L	COS-BIOL	1(0,2)
Techniques of Observational Astronomy: PR: AST 2002, PHY 2048. Fundamental principles and techniques used in planning, reducing, and analyzing modern astronomical observations. Numerical treatment of photometry, spectroscopy, and CCD images. <i>Even Spring</i> .			Florida Wildflowers: PR: BSC 2010C, BSC 2011C, BOT 4303C, or C.I. The biology of wildflowers of Florida, their identification, taxonomy, distribution, flowering times, and roles played in the environment and welfare of man. <i>Occasional</i> . M&S fee: \$15.00			Biology and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050. <i>Occasional</i> . M&S fee: \$15.00		
AST 4142	COS-PHYS	3(3,0)	BOT 4223C	COS-BIOL	4(3,3)	BSC 2010C	COS-BIOL	4(3,2)
Asteroids, Comets, and Meteorites: PR: AST 2002 or AST 3211. Asteroids, comets, and meteorites and their role in the origin and evolution of our solar system. <i>Occasional</i> .			Plant Anatomy: PR: BSC 2010C and BSC 2011C, or C.I. A study of development, structure and function of the principal organs and tissue of vascular plants. <i>Occasional</i> . M&S fee: \$15.00			Biology I: PR: High school biology or C.I. Open only to students whose major requires this specific course. Cellular and chemical basis of life, genetics, and the theory of evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. <i>Fall, Spring</i> . M&S fee: \$15.00		
AST 4501	COS-PHYS	3(3,0)	BOT 4303C	COS-BIOL	5(3,6)	BSC 2010H	COS-BIOL	4(3,3)
Celestial Mechanics: PR: PHY 2048, AST 2002. The orbital motions of celestial bodies, including orbit calculation, perturbation theory, and Hohmann transfer orbits. <i>Occasional</i> .			Plant Kingdom: PR: BSC 2010C and BSC 2011C, or C.I. A survey of the plant kingdom utilizing comparative morphology, structure and functions to demonstrate relationships among extant and extinct forms. <i>Occasional</i> . M&S fee: \$40.00			General Biology Honors: PR: Permission of Honors. Priority given to students whose major requires this course. Basic principles and unifying concepts of modern biology. Introduction to quantitative experimentation using intensive, open-ended labs. <i>Fall, Spring</i> . M&S fee: \$24.00		
AST 5165	COS-PHYS	3(3,0)	BOT 4503	COS-BIOL	3(3,0)	BSC 2011C	COS-BIOL	4(3,3)
Planetary Atmospheres: PR: Mechanics PHY 3220 and Modern Physics 3101, graduate status or senior standing, or C.I. This course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets. <i>Occasional</i> .			Plant Physiology: PR: PCB 3023 or C.I. A Study of mechanisms used by plants to cope with the environment. <i>Occasional</i> .			Biology II: PR: BSC 2010C or C.I. Open only to students whose major requires this specific course. Continuation of BSC 2010C. Organismal anatomy and physiology as it relates to biodiversity, ecology and evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. <i>Fall, Spring</i> . M&S fee: \$20.00		
BCH 4053	COS-CHEM	3(3,0)	BOT 4503L	COS-BIOL	1(0,3)			
Biochemistry I: PR: CHM 2211. A consideration of proteins, carbohydrates, nucleic acids, enzymes and their effect on biochemical systems, and inter-relationship of intermediary metabolism. <i>Fall, Spring</i> .			Plant Physiology laboratory: CR: BOT 4503. The laboratory to accompany BOT 4503. <i>Occasional</i> . M&S fee: \$15.00					

BSC 2011H COS-BIOL 4(2,6)
Honors Biodiversity: PR: Permission of Honors and BSC 2010H or C.I. BSC 2011C for honors students; enhanced by considerable field work, a CD-ROM "text," relevant video programs and readings written by authorities in the field. *Occasional.*

BSC 2420 BCBS-M&M 3(3,0)
Principles of Biotechnology: Principles, applications, laws, ethics and impact on society of biotechnology in agriculture, medicine, forestry, environment, computers/industrial/chemical engineering and business management. *Occasional.*

BSC 3403C BCBS-M&M 4(3,4)
Quantitative Biological Methods: PR: BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation. *Fall, Spring.* M&S fee: \$25.00

BSC 3404H BCBS-M&M 4(3,4)
Quantitative Biological Methods-Honors: PR: Consent of Honors, BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular biological experimentation. Honors level content. *Fall.*

BSC 3424 BCBS-M&M 3(3,0)
Nanobiotechnology: PR: MCB 1310, and either CHM 2046 or PHY 2054C. Biological processes in nano scale interactions with elements of physics & engineering. *Occasional.*

BSC 3949 COS-BIOL 0(0,8)
Cooperative Education in Biology: PR: Departmental permission required before registering. Cooperative education experience in biology. Graded S/U. May be repeated for credit. *Occasional.*

BSC 4101 COS-BIOL 3(3,0)
History of Biology: PR: BSC 2010C, BSC 2011C and 8 hours in biology or C.I. People and events involved in the development of major biological concepts and disciplines. Suitable for majors and non-majors. *Occasional.*

BSC 4312C COS-BIOL 4(3,3)
Marine Biology: PR: PCB 3044 and STA 2023. The biological, ecological, physical and chemical aspects of the world's oceans. *Even Spring.* M&S fee: \$45.00

BSC 4422L COS-BIOL 1-4(0,3-12)
Biology Laboratory Techniques: PR: PCB 3044, CHM 2210, or C.I. Individual and small group instruction in current laboratory techniques beyond the scope of typical Biology laboratories. May be repeated for credit, up to a maximum of 4 credits total. Graded S/U. *Occasional.*

BSC 4454 COS-BIOL 2(0,2)
Research in Animal Physiology: PR: PCB 4723. Development of research skills in animal physiology through hands-on experimental design, data collection, use of data analysis software, and communication of results. *Occasional.*

BSC 4937 COS-BIOL 2(0,2)
Instructional Experiences in Undergraduate Biology: PR: PCB 3063, Biology major with 80 semester hours and 3.0 gpa. Preparation of undergraduate students to more effectively learn biological concepts by facilitating learning in variety of university biology labs. May be repeated for credit. Graded S/U. *Fall, Spring.*

BSC 5258L COS-BIOL 3(0,3)
Tropical Biology Research and Conservation: PR: Graduate standing or C.I. Research and conservation in New World tropics, including a field trip to Belize. Tropical biodiversity and forest ecology, integrating conservation strategies in research and communication. *Occasional.*

BSC 5408L COS-BIOL 3(0,9)
Advanced Biology Laboratory Techniques: PR: 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.* M&S fee: \$15.00

BSC 5418 BCBS-M&M 3(3,0)
Tissue Engineering: PR: Graduate standing. Introduction to Tissue Engineering with a special emphasis on the current status of the field, on novel methods and on cell - bio-material interactions. *Occasional.*

BSC 5817 COS-BIOL 3(3,0)
Biology for AP Teachers: PR: Graduate status or senior standing or C.I. Participants will perform and evaluate the 12 required labs, analyze the design and grading of the Exam, and develop a representative program. *Occasional.*

BTE 4410 ED-TLP 3(3,0)
Course Construction in Business Education: PR: EVT 3365 or C.I. An overview and examination of business curriculum and methodology integrated into the vocational frameworks. Planning and preparation of materials, managing the laboratory and involvement in vocational student organizations. *Occasional.*

BUL 3130 BA-ACCT 4(4,0)
Legal and Ethical Environment of Business: PR: Junior standing and business major or minor. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical consideration. *Fall, Spring.*

BUL 3130H BA-ACCT 4(4,0)
Legal & Ethical Environment of Business - Honors: PR: Junior standing and business major or minor, permission of Honors. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level content. *Occasional.*

BUL 4540 BA-MAN 3(3,0)
Employment Law: PR: Management major or minor, MAN 3025, CR: MAN 3301. An examination of current employment law and issues/trends in the legal environment impacting human resource management system design, HRM policy and employee relations. *Fall, Spring.*

BUL 5332 BA-ACCT 3(3,0)
Advanced Business Law Topics: PR: 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.*

BUL 5810 BA-ACCT 3(3,0)
Legal and Social Environment of Business: PR: Admission to graduate program. Analysis of the legal and ethical environment of business, the effects of legislation and regulation on business activity, and the role of law and ethics in the decision-making process. *Occasional.*

CAP 4453 ECS-CS 3(3,0)
Robot Vision: PR: COP 3530C and MAC 2312, or C.I. Pin hole camera and eye, perspective and orthographic projections, the processing of edges, regions, motion, shading, texture, object; robot arm usage. *Fall, Spring.*

CAP 4630 ECS-CS 3(3,0)
Artificial Intelligence: PR: COP 3503C and COT 3960. Current methods in AI: knowledge-based systems, representation, inference, planning, natural language. Programming in Lisp or Prolog required. *Fall.*

CAP 4720 ECS-CS 3(3,0)
Computer Graphics: PR: COP 3503C and COT 3960 and MAC 2147 or equivalent. Math for computer graphics, visibility and shading, graphics and data structure, curves and surfaces, commodity graphics hardware, and graphics API. *Occasional.*

CAP 5015 ECS-CS 3(3,0)
Multimedia Compression on the Internet: PR: seniors and graduate students with interest in internet technology. Multimedia data; internet technology; entropy; compression methods: lossy compression; vector quantization; transform coding; wavelet video compression; model based compression. *Occasional.*

CAP 5415 ECS-CS 3(3,0)
Computer Vision: PR: 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.*

CAP 5417 ECS-CS 3(3,0)
Algorithms on Strings and Sequences: PR: COT 3100C or C.I. Exact and approximate pattern matching, k-mismatch problem, suffix tree, generalized suffix tree, sequence similarity, sequence alignment, multiple sequence alignment, dynamic programming methods, bioinformatics applications. *Occasional.*

CAP 5419 ECS-CS 3(3,0)
3D Computer Vision: PR: 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, Chirality. *Occasional.*

CAP 5510 ECS-CS 3(3,0)
Bioinformatics: PR: 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.*

CAP 5512 ECS-CS 3(3,0)
Evolutionary Computation: This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms. *Spring.*

CAP 5610 ECS-CS 3(3,0)
Machine Learning: PR: 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.*

CAP 5636 ECS-CS 3(3,0)
Advanced Artificial Intelligence: PR: CAP 4630. AI theory of knowledge representation, "expert systems," memory organization, problem solving, learning, planning, vision, and natural language. *Fall.*

CAP 5725 ECS-CS 3(3,0)
Computer Graphics I: Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems. *Spring.*

CBH 3003 COS-PSYCH 3(3,0)
Comparative Psychology: PR: PSY 2012. A study of comparative behaviors of lower animals. *Occasional.*

CCE 4003 ECS-CEE 3(3,0)
Introduction to the Construction Industry: PR: EGN 3613, ENV 3001, EGN 3310 with a grade of "C" or better. Project delivery systems, construction contracts; estimating and scheduling; ethics and labor issues. Multi-disciplinary experience in engineering. *Fall.*

CCE 4004 ECS-CEE 3(3,0)
Construction Methods: PR: CES 4100C. Construction project evaluation principles along with construction methods for civil and structural systems. *Spring.*

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<p>CCE 4031 ECS-CEE 3(3,0) Construction Project Management: PR: EGN 3613. Project management in the construction industry. Project financial evaluation on a life cycle basis. Essentials of project management such as estimating scheduling, contracts, and administration. May be repeated for credit. <i>Occasional.</i></p>	<p>CCJ 3450 HPA-CJ/LS 3(3,0) The Criminal Justice Manager: PR: CCJ 3024 or C.I. Elements of first-line supervision and executive development. Administrative leadership: its nature; methods, and traits. Recent theories and research in leadership. <i>Occasional.</i></p>	<p>CCJ 4463 HPA-CJ/LS 3(3,0) Cultural Diversity in Criminal Justice: PR: CCJ 3024. This course focuses on the problems and issues associated with race, ethnic and gender relations in the administration of justice in a democratic society. <i>Occasional.</i></p>
<p>CCE 4034 ECS-CEE 3(3,0) Construction Estimating and Scheduling: PR: CCE 4003. Construction project estimating and bidding and the preparation of construction schedules, followed by in-depth coverage of time and cost control. <i>Fall.</i></p>	<p>CCJ 3451 HPA-CJ/LS 3(3,0) Justice System Technology: PR: CCJ 3024 or C.I. Examination of the relevance of scientific and technological developments to justice systems and their applicability to the operations and management of the systems. <i>Occasional.</i></p>	<p>CCJ 4484 HPA-CJ/LS 3(3,0) Liability Issues in Criminal Justice: PR: CCJ 3024. Student of fundamental concepts found in civil law with an emphasis on civil liability regarding criminal justice practices. <i>Occasional.</i></p>
<p>CCE 4402 ECS-CEE 3(3,0) Construction Equipment and Productivity: PR: CCE 4003, CWR 3201. Selection of appropriate equipment based on operational parameters, principles of construction productivity measurement and analysis, and discrete event simulation. <i>Spring.</i></p>	<p>CCJ 3483 HPA-CJ/LS 4(4,0) Labor Relations in Criminal Justice: PR: CCJ 3024 and CCJ 3450 or C.I. Examine the role of public sector labor relations in criminal justice to include management-employee relationships, collective bargaining process, employee organizations, and federal-state laws. <i>Occasional.</i></p>	<p>CCJ 4486 HPA-CJ/LS 3(3,0) Criminal Justice Ethics: Focuses on the ethical issues and problems commonly encountered in the criminal justice system (policy courts and corrections). <i>Occasional.</i></p>
<p>CCE 4810C ECS-CEE 3(2,2) Construction Design Project: PR: Senior Standing, CCE 4034, and CCE 4004. The preparation and development of a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control. <i>Spring.</i></p>	<p>CCJ 3520H HPA-CJ/LS 3(3,0) Honors Juvenile Offenders: An Integrative Perspective: PR: Permission of Honors. To provide students with an integrative understanding of the social, psychological, and legal dynamics evident in processing juvenile offenders. <i>Occasional.</i></p>	<p>CCJ 4616 HPA-CJ/LS 3(3,0) Criminal Profiling in Criminal Justice: PR: CCJ 3014 or C.I. Examines criminal profiling undertaken by law enforcement and prosecution authorities which consists of gathering, reviewing and analyzing evidence pertaining to violent crimes. <i>Occasional.</i></p>
<p>CCE 4813 ECS-CEE 4(4,0) Mechanical and Electrical Systems for Buildings: PR: CCE 4003, PHY 2049/L, CWR 3201. Design and construction of mechanical and electrical systems for buildings. <i>Fall.</i></p>	<p>CCJ 3667 HPA-CJ/LS 3(3,0) Victims and the CJ System: PR: CCJ 3024. Course examines Victims as they affect the Criminal Justice system, the dimensions of criminal victimization, and victim offender programs. <i>Occasional.</i></p>	<p>CCJ 4641 HPA-CJ/LS 3(3,0) Organized Crime: An examination of organized crime, including structures, history and activities, and of issues surrounding efforts to define and control it. <i>Occasional.</i></p>
<p>CCE 5006 ECS-CEE 3(3,0) Introduction to Construction Industry: PR: post-bac status or C.I. This course introduces students to the construction industry. Topics include project evaluation, project phases, project delivery systems, contracts, estimating and schedule drawing and specifications. Research paper required. <i>Occasional.</i></p>	<p>CCJ 4035 HPA-CJ/LS 3(3,0) Crime and the Media: PR: CCJ 3024 or C.I. Explore how the criminal justice system, criminals, and crime are portrayed in the media and its impact on society and the criminal justice system. <i>Fall, Spring.</i></p>	<p>CCJ 4644 HPA-CJ/LS 3(3,0) White Collar Crime: PR: CCJ 3014 and CCJ 3024. Classic definitions and statements on white collar crime concepts, concepts and criminal activities, types of fraud, investigations, environmental crime, and corporate crime. <i>Occasional.</i></p>
<p>CCE 5036 ECS-CEE 3(3,0) Construction Estimation and Scheduling: PR: C.I. Provides students with an understanding of estimating and scheduling of construction projects. Topics include detailed estimates, scheduling and project control Research paper required. <i>Occasional.</i></p>	<p>CCJ 4076 HPA-CJ/LS 3(3,0) Crime Analysis II: PR: CJE 4654, CJE 4663. Designed to provide advanced data analysis skills that will enable a crime analysis sophisticated methodologies to crime analysis. <i>Occasional.</i></p>	<p>CCJ 4651 HPA-CJ/LS 3(3,0) Drugs and Crime: Focuses on the problems of drugs and drug control in contemporary society. Students will examine the problems of drugs in our society as well as specific strategies used by criminal justice agencies to prevent and control illicit drug use. <i>Fall, Spring.</i></p>
<p>CCE 5205 ECS-CEE 3(3,0) Construction Methods: PR: post-bac status or C.I. This class covers construction project evaluation principles along with construction methods for civil and structural systems. <i>Occasional.</i></p>	<p>CCJ 4195 HPA-CJ/LS 3(3,0) Interviews & Interrogations in CJ: PR: CCJ 3024 (Criminal Justice System) and CJ Major or C.I. The criminal justice interview process including history of criminal justice interviews, the use of Miranda, non-verbal listening, and the rules of testimonial evidence. <i>Fall, Spring.</i></p>	<p>CCJ 4661 HPA-CJ/LS 3(3,0) Terrorism: PR: CCJ 3024 and CJE 4014 or C.I. An examination of competing ideologies of a variety of social and political conflicts (both international and domestic) that give rise to terrorism and of the implications for the criminal justice system. <i>Occasional.</i></p>
<p>CCE 5406 ECS-CEE 3(3,0) Construction Equipment and Productivity: PR: C.I. Selection of appropriate equipment based on operational parameters. Principles of construction productivity measurement and analysis Discrete event simulation. <i>Occasional.</i></p>	<p>CCJ 4296 HPA-CJ/LS 3(3,0) Famous Crimes & Trials: PR: CCJ 3014 or CCJ 3024 or consent of instructor. A detailed examination of selected famous American crimes and trials since 1900. <i>Occasional.</i></p>	<p>CCJ 4670 HPA-CJ/LS 3(3,0) Women and Crime: This course covers women in criminal justice as offenders and prisoners, as well as crime victims and professionals working in the system. <i>Occasional.</i></p>
<p>CCE 5815 ECS-CEE 4(4,0) Mechanical and Electrical Systems for Buildings: PR: C.I. This course covers the design and construction of mechanical and electrical systems for buildings Research paper required. <i>Occasional.</i></p>	<p>CCJ 4361 HPA-CJ/LS 3(3,0) Death Penalty: PR: CCJ 3024. This course provides students an opportunity to analyze and discuss complex issues surrounding the death penalty and the criminal justice system. <i>Occasional.</i></p>	<p>CCJ 4681 HPA-CJ/LS 3(3,0) Domestic Violence and the Justice System: PR: CCJ 3024. Study of the nature and causes of forms of domestic violence, pertaining to laws, prevention strategies, and justice system response. <i>Occasional.</i></p>
<p>CCJ 3014 HPA-CJ/LS 3(3,0) Crime in America: A survey of crime and criminality in the United States, with emphasis on crime data, its weaknesses, and types of criminal behavior. <i>Fall, Spring.</i></p>	<p>CCJ 4454 HPA-CJ/LS 3(3,0) Policy Development in Law Enforcement: PR: CJE 4014. The course is designed to deal with policy development in law enforcement. Major issues of organization, administration, personnel practices and police operations will be addressed. <i>Occasional.</i></p>	<p>CCJ 4690 HPA-CJ/LS 3(3,0) Sex Offenders and the Criminal Justice System: PR: CCJ 3024 or C.I. Provides students a better understanding of how the criminal justice system deals with sex offenders and their offenses. <i>Fall, Spring.</i></p>
<p>CCJ 3024 HPA-CJ/LS 3(3,0) Criminal Justice System: An examination of the components and of their interdependence in light of their traditional autonomy. <i>Fall, Spring.</i></p>	<p>CCJ 4459 HPA-CJ/LS 3(3,0) Justice Agency Operations: PR: CCJ 3024 and CCJ 3450 or C.I. Elements, functions, and processes essential to the continuing management of various criminal justice agencies, institutions and court systems. <i>Occasional.</i></p>	<p>CCJ 4701 HPA-CJ/LS 3(3,0) Research Methods in Criminal Justice: Overview of the social science research methodology used in criminal justice, covers the major forms of research designs used by social science and evaluates their strengths and weaknesses. <i>Fall, Spring.</i></p>
<p>CCJ 3058 HPA-CJ/LS 3(3,0) Origins of Criminal Justice: PR: CCJ 3024. Study of criminal justice system evolution. Focus on developments contributing to the institutions and practices of the American criminal justice system. <i>Occasional.</i></p>		<p>CCJ 4934 HPA-CJ/LS 1-3(1-3,0) Emergent Criminal Justice Issues: PR: CCJ 3014, CCJ 3024 or C.I. Developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit. <i>Occasional.</i></p>

<p>CCJ 5015 HPA-CJ/LS 3(3,0) The Nature of Crime: PR: Admission to Criminal Justice Master's Program 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. <i>Occasional.</i></p>	<p>CDA 4150C ECS-CS 4(3,1) Computer Architecture: PR: COP 3402 and CDA 3103C. Basic processor design, hardware and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. <i>Fall, Spring.</i></p>	<p>CEG 4801C ECS-CEE 3(2,2) Geotechnical Engineering Design: PR: CEG 011C. Project course on design of foundations and other soil structures using geotechnical design methodologies. <i>Fall, Spring.</i> M&S fee: \$15.00</p>
<p>CCJ 5040 HPA-CJ/LS 6(6,0) International Perspectives on Law and Justice: PR: C.I. or graduate standing. Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits. <i>Occasional.</i></p>	<p>CDA 4150H ECS-CS 4(3,1) Honors Computer Architecture: PR: Consent of Honors and COP 3402 and CDA 3103C. Basic processor design, hardware and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. With Honors level content. <i>Occasional.</i></p>	<p>CEG 4812 ECS-CEE 1(1,0) Historical Developments in Civil Engineering: Seminar covering major historical developments in civil engineering. <i>Occasional.</i></p>
<p>CCJ 5073 HPA-CJ/LS 3(3,0) Data Management Systems for Crime Analysis: PR: graduate standing or C.I. This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation. <i>Fall.</i></p>	<p>CDA 4506C ECS-CS 3(1,2) Design and Implementation of Computer Communication Networks: PR: COP 3502C, MAD 2104 or COT 3100C. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), products (routers, switches, adapters, cabling). Base design and detailed configuration including hands-on exercises. <i>Fall, Spring.</i></p>	<p>CEG 5015 ECS-CEE 3(3,0) Geotechnical Engineering II: PR: CEG 011C. Continuation of CEG 011C with emphasis on shear strength and design factors for earth pressures, bearing capacity, and slope stability. <i>Occasional.</i></p>
<p>CCJ 5105 HPA-CJ/LS 3(3,0) Foundations of Law Enforcement: PR: C.I. Examines police role in modern society and law enforcement policy. <i>Occasional.</i></p>	<p>CDA 4527 ECS-CS 3(3,0) Analysis of Computer Communication Networks: PR: COT 3100C, STA 2023, MAC 2312. Network design using layering. Introduces cabling, topology, architecture, hardware and software. Includes performance and control issues such as congestion control, error control, contention resolution. <i>Occasional.</i></p>	<p>CEG 5700 ECS-CEE 3(3,0) Geo-Environmental Engineering: PR: CEG 011C. Geotechnical applications to environmental problems, groundwater flow, soil contamination and groundwater contaminate transport, geosynthetics and stability of landfill design, control of contaminated sites. <i>Occasional.</i></p>
<p>CCJ 5406 HPA-CJ/LS 3(3,0) Research and Technology Implementation: Changing roles of social and physical sciences as related to the objectives and administration of public safety agencies. <i>Occasional.</i></p>	<p>CDA 5106 ECS-CS 3(3,0) Advanced Computer Architecture I: PR: CDA 4150C. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O. <i>Fall, Spring.</i></p>	<p>CEN 4020 ECS-CS 3(3,0) Component-based Engineering Software: PR: EEL 4851C, EEL 4882. In-depth treatment of component-based software development including analysis design and implementation of correct and reusable software in different component levels. <i>Occasional.</i></p>
<p>CCJ 5456 HPA-CJ/LS 3(3,0) The Administration of Justice: PR: Admission to Criminal Justice Master's 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. <i>Fall, Spring.</i></p>	<p>CDA 5110 ECS-CS 3(3,0) Parallel Architecture and Algorithms: PR: 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. <i>Occasional.</i></p>	<p>CEN 5016 ECS-CS 3(3,0) Software Engineering: PR: 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. <i>Spring.</i></p>
<p>CCJ 5467 HPA-CJ/LS 3(3,0) Justice and Safety System Manpower: Processes essentials to administration to human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel. <i>Occasional.</i></p>	<p>CDA 5215 ECS-CS 3(3,0) Architecture and Design of VLSI: PR: CDA 4150C or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system. <i>Occasional.</i></p>	<p>CES 4100C ECS-CEE 4(3,3) Structural Analysis I and Lab: PR: EGN 3331. Topics in structural mechanics, analysis of determinate and indeterminate structures by flexibility and stiffness methods computer and laboratory exercises on behavior of structures and materials. <i>Fall.</i></p>
<p>CCJ 5617 HPA-CJ/LS 3(3,0) Mental Disorder, Crime, and Criminal Justice: PR: CCJ 5456, CCJ 5015, or C.I. An overview of the relationship between mental disorder, crime, and the criminal justice system. <i>Occasional.</i></p>	<p>CDA 5501 ECS-CS 3(3,0) Computer Communication Networks Architecture: PR: CDA 4150C. Computer networks, layers, protocols and interfaces, local area networks networking. <i>Fall.</i></p>	<p>CES 4101 ECS-CEE 3(3,0) Matrix Methods for Structural Analysis: PR: CES 4100C or C.I. Introduction to matrix structural analysis, 2D and 3D structural analysis, special topics and modeling techniques, software tools for structural engineers for computer based applications. <i>Occasional.</i></p>
<p>CCJ 5675 HPA-CJ/LS 3(3,0) Human Rights & Criminal Justice: PR: Senior scholar or graduate standing 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. <i>Occasional.</i></p>	<p>CDA 5530 ECS-CS 3(3,0) Performance Models of Computers and Networks: PR: senior standing or beginning graduate student. Performance Models of Computer Systems and Networks using probability models and discrete event simulations. Queuing Theory and modeling tools. <i>Occasional.</i></p>	<p>CES 4605 ECS-CEE 3(3,0) Steel Structures: PR: CES 4100C. Design of structural steel members and buildings; emphasis on AISC-ASD building code; introduction to AISC-LRFD building code; tension and compression members, beams, beam-columns, connections. <i>Fall.</i></p>
<p>CCJ 5931 HPA-CJ/LS 3(3,0) Contemporary Criminal Justice Strategies: PR: 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. <i>Occasional.</i></p>	<p>CDA 5532 ECS-CS 3(3,0) Network-Centric Computing: PR: Graduate standing. Concepts in network-centric computing and process coordination in information grids. <i>Occasional.</i></p>	<p>CES 4608C ECS-CEE 3(2,2) Steel Design: PR: CES 4605. Project course on design of steel components, connections, and frame structures using AISC specifications. <i>Spring.</i> M&S fee: \$15.00</p>
<p>CCJ 5934 HPA-CJ/LS 1(1,0) Criminal Justice Investigative Process: PR: Graduate standing or C.I. Advanced seminar providing students with a broad view of how criminal justice investigative processes operate. Focuses on the roles and responsibilities of agents as investigators. May be used in the degree program a maximum of 4 times. <i>Occasional.</i></p>	<p>CEG 3301 ECS-CEE 3(3,0) Engineering and Environmental Geology: PR: EGN 3310 and CHS 1440 or equivalent. Principles of physical geology, with emphasis on engineering and environmental topics. Study of land forms, geologic maps, geologic structure, weathering, groundwater, mass wasting, and earthquakes. <i>Occasional.</i></p>	<p>CES 4702 ECS-CEE 3(3,0) Reinforced Concrete Structures: PR: CES 4100C or C.I. Design of RC members using ACI code; beam flexure and shear; compression bending; bond and development; introduction to continuous frames. <i>Spring.</i></p>
<p>CDA 3103 ECS-CS 3(3,0) Computer Organization: PR: COP 3223. Logic design, computer arithmetic, Instruction Set Architecture (MIPS, SPIM simulator), performance, data path, control unit, memory hierarchy, I/O interface. <i>Fall, Spring.</i></p>	<p>CEG 4011C ECS-CEE 4(3,2) Geotechnical Engineering I: PR: EGN 3331 and CWR 3201. Engineering properties and classification of soils. Design considerations for compaction, seepage, consolidation, and settlement analysis. <i>Fall, Spring.</i> M&S fee: \$30.00</p>	<p>CES 4709C ECS-CEE 3(2,2) Concrete Design: PR: CES 4702. Project course on design of concrete structures using concrete and structural analysis methodologies. <i>Fall.</i> M&S fee: \$15.00</p>
		<p>CES 5144 ECS-CEE 3(3,0) Matrix Methods for Structural Analysis: PR: 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. <i>Occasional.</i></p>

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<p>CES 5325 ECS-CEE 3(3,0) Bridge Engineering: PR: 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. <i>Occasional.</i></p>	<p>CET 3529 ECS-ENT 3(3,0) Linux/Unix System Admin and Applications: PR: CET 2364 or equivalent. Installation, creation and maintenance of file systems, backups, and configuration. <i>Fall, Spring.</i></p>	<p>CET 4583 ECS-ENT 3(3,0) Web Based Systems I: PR: CET 2364. Introduction to web systems with emphasis on server configuration, web standards, and portal design. <i>Occasional.</i></p>
<p>CES 5606 ECS-CEE 3(3,0) Advanced Steel Structures: PR: 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. <i>Occasional.</i></p>	<p>CET 3752 ECS-ENT 3(3,0) Intro to Telephony: PR: EET 3085C or equivalent or C.I. An introductory level course in telephony technology. The telephony environment, telemanagement, telephony connectivity and services of telephony. <i>Fall.</i></p>	<p>CET 4584 ECS-ENT 3(3,0) Web Based Systems II: PR: CET 4583. Advanced web design concentration on use of current technology (CGI, Java, XML, DHTML) to provide interactivity. <i>Fall.</i></p>
<p>CES 5706 ECS-CEE 3(3,0) Advanced Reinforced Concrete: PR: 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. <i>Occasional.</i></p>	<p>CET 4134C ECS-ENT 3(2,4) Microprocessor Electronics II: PR: Digital Circuits I and CET 2123C. The MC68000 Software architecture programming and hardware architecture are covered in great details. Assembly language programming interfacing and hardware characteristics as well as applications are covered. <i>Occasional.</i> M&S fee: \$45.00</p>	<p>CET 4663 ECS-ENT 3(3,0) Computer and Network Security: PR: CET 4264, MAC 1105. Fundamentals of computer security technology, including cryptography, authentication, digital signatures, and network security tools and applications. <i>Fall.</i></p>
<p>CES 5821 ECS-CEE 3(3,0) Masonry and Timber Design: PR: C.I. Structural properties of masonry and timber; design loads-codes and standards; analysis for axial loads, flexure and shear. <i>Occasional.</i></p>	<p>CET 4138C ECS-ENT 3(3,2) Digital Programmable Devices: PR: CET 3198C or equivalent and C.I. Architecture and applications of various types of programmable logic devices. Design entry methods, e.g. HDL, schematic capture, etc. Lab exercises using PALS, PLDs, and FPGs. <i>Occasional.</i></p>	<p>CET 4668 ECS-ENT 3(3,0) Practice of Information Security: PR: CET 4663. Practice of Information Security including technical security issues, legal issues, physical and operational security, and security architecture and models. <i>Occasional.</i></p>
<p>CET 2123C ECS-ENT 3(2,3) Microprocessor Electronics I: PR: MAC 1105. Introduction to microprocessors. Includes machine language programming, an introduction to microprocessor-based system architecture, and binary and hexadecimal arithmetic. <i>Occasional.</i> M&S fee: \$5.00</p>	<p>CET 4333 ECS-ENT 3(3,0) Computer Organization and Design: PR: CET 3323C. Basic computer architecture and system design. An introduction to memory, processor, Bus and I/O organization. <i>Occasional.</i></p>	<p>CET 4741L ECS-CS 3(0,3) Computer Networking Laboratory: PR: C.I. Laboratory exercises to enhance the understanding of concepts/principles discussed in computer networking and data communication texts. <i>Occasional.</i></p>
<p>CET 2364 ECS-ENT 3(3,0) Systems Applications in C: PR: MAC 1105. Use of C language in control of system processes, DOS and BIOS interrupts, and interfacing with assembly language. May be repeated for credit. <i>Fall, Spring.</i></p>	<p>CET 4334C ECS-ENT 3(2,2) Applied Computer Systems II: PR: CET 4333. Continuation of CET 4333. High performance computer architecture. Parallel processing and scalable shared-memory multiprocessing. May be repeated for credit. <i>Occasional.</i></p>	<p>CET 4748 ECS-ENT 3(3,0) Wide Area Networks I: PR: CET 3752 or CET 4483, or C.I. Designing Wide Area Networks: determining requirements, designing the networks, structure, choosing appropriate technologies, and evaluating results. <i>Fall.</i></p>
<p>CET 3010 ECS-ENT 3(3,0) Introduction to Information Technology: PR: MAC 1105. An introduction to IT field, including binary representation, graphics, data compression, information theory, transmission and storage technology, and communications. <i>Fall, Spring.</i></p>	<p>CET 4427 ECS-ENT 3(3,0) Applied Database I: PR: CET 2364 or equivalent. Design and implementation of data base systems within the concept of central administration, structured data storage. Programming project. May be repeated for credit. <i>Fall, Spring.</i></p>	<p>CET 4749 ECS-ENT 3(3,0) Wide Area Networks II: PR: CET 4748. Traffic and cost generators. Access network design. Multi-speed access designs. Multilocal-access and mesh network design. <i>Spring.</i></p>
<p>CET 3144C ECS-ENT 3(2,2) Applied Microprocessor Technology: PR: DC Circuit Analysis, digital and microprocessor fundamentals, and high level programming language. Analysis and design of the components, architecture, and interfacing of a microcomputer. Specific reference to IBM compatible microcomputers and peripherals. Troubleshooting and repair are emphasized in the laboratory. <i>Occasional.</i> M&S fee: \$10.00</p>	<p>CET 4429 ECS-ENT 3(3,0) Applied Database II: PR: CET 4427. Continuation of CET 4427. Study of hierarchical database system. Programming project is required. May be repeated for credit. <i>Spring.</i></p>	<p>CET 4882 ECS-ENT 3(3,0) Network Defense Strategies: PR: CET 4663. Secure implementation and use of preventative controls when designing network architectures. Tools covered include firewalls, routers, and other components. <i>Occasional.</i></p>
<p>CET 3198C ECS-ENT 3(3,2) Digital Systems: PR: DC Circuits and Digital Circuits 1. Finite State Machines and Algorithmic State Machines, includes design, synthesis and implementation of a digital system using schematic capture and VHDL. <i>Spring.</i> M&S fee: \$12.00</p>	<p>CET 4469C ECS-ENT 3(2,2) Applied Infobases: PR: ETI 3651C, CET 3144C, CET 3503 or equivalent, C.I. Using computer application packages to create, use, and index both personal and technical infobases. Hardware and software optimization. Enhancement add-ins. Intranet applications. <i>Occasional.</i></p>	<p>CET 4884 ECS-ENT 3(3,0) Security Methods and Practice: PR: CET 4663, CET 4483 or C.I. Computer networks, secure telecommunications networks, disaster recovery, and the legal issues of security practices. <i>Spring.</i></p>
<p>CET 3323C ECS-ENT 4(3,2) Digital Technology: PR: MAC 1105 and C.I. Digital logic gates, memory devices, Karnaugh Maps, combinational logic, arithmetic units, registers and sequential logic. <i>Fall, Spring.</i></p>	<p>CET 4483 ECS-ENT 3(3,0) Intro to Local Area Network Technology: PR: EET 3085C or equivalent or C.I. An introductory level course in local area networks. Topics in data communications, computer networking, local area network technology, topologies, and protocols will be covered. May be repeated for credit. <i>Spring.</i></p>	<p>CET 4885 ECS-ENT 3(3,0) Investigative Digital Technology: PR: CET 4884. Security administration including vulnerability analysis, procedures and tools for security assessment. <i>Fall.</i></p>
<p>CET 3383 ECS-ENT 3(3,0) Applied Systems Analysis I: PR: CET 2364 or equivalent. Study of system analysis, design, development and implementation cycle. Includes Object Oriented Programming (OOP) to implement system programs. May be repeated for credit. <i>Spring.</i></p>	<p>CET 4505 ECS-ENT 3(3,0) Applied Operating Systems I: PR: CET 2364. Modifying the operating systems to support new types of devices. Analysis of limitations and strengths of commercial mass storage operating systems in industry. O.S. tool box usage. May be repeated for credit. <i>Fall.</i></p>	<p>CET 4889 ECS-ENT 3(3,0) Security Sensor Technology and Biometrics: PR: CET 4663 or C.I. Biometric identification. Techniques for extracting trait information for individual identification. Topics include multimodal biometrics, performance evaluation, biometric templates and privacy. <i>Spring.</i></p>
<p>CET 3503 ECS-ENT 3(3,0) Microcomputer Technology I: PR: High level programming language. Microcomputer assembly programming, including overview of architecture and operating system environment. <i>Fall.</i></p>	<p>CET 4523 ECS-ENT 3(3,0) Applied Systems Analysis II: PR: CET 3383. Continuation of CET 3383, with emphasis on distributed processing which includes the interfacing of minis, mainframes, software, communications, and data base technology into a responsive information system. <i>Occasional.</i></p>	<p>CET 4915C ECS-ENT 3(1,4) Senior Design Project: PR: Computer, Electronics, or Information Systems Engineering Technology senior within 18 semester hours of graduation. Supervised individual or group projects involving project definition, planning, design, development, testing and evaluation. Progress reports and final report are required. <i>Occasional.</i></p>
		<p>CET 4931 ECS-ENT 3(3,0) Current Topics in Technology: PR: C.I. Study of recent state-of-the-art computer related topics from recognized electronics and computer oriented technical journals and texts. Requires written and verbal communication. <i>Occasional.</i></p>

UCF Courses and Descriptions

CGN 3501C	ECS-CEE	3(2,3)	CGS 2585C	ECS-CS	3(2,1)	CHI 2201	CAH-LANG	3(3,0)
Civil Engineering Materials: PR: C.I. The characterization of materials used in civil engineering works to include concrete, soils, bituminous, polymers and composite materials. <i>Occasional.</i>			Desktop/Internet Publishing: PR: CGS 1060C or equivalent. Principles and techniques of page layout and formatting for documents and newsletters, presentation techniques, construction of web pages and design of integrated websites. <i>Occasional.</i>			Intermediate Chinese II: PR: CHI 2200 (Intermediate Chinese I). Continuation of CHI 2200 with emphasis on Chinese cultures. <i>Fall, Spring.</i>		
CGN 4300	ECS-CEE	3(3,0)	CGS 3175	ECS-CS	3(3,0)	CHM 1020	COS-CHEM	3(3,0)
Civil Engineering Systems: PR: EGN 3613; MAC 2313; STA 3032. Mathematical techniques commonly associated with operations research and economics which are applicable to the planning, design, and operation of civil engineering systems. <i>Occasional.</i>			Internet Applications: PR: CGS 1060C. HTML coding, using images, sound and animation, advanced text formatting, forms and CGS scripts, introduction to javascript. <i>Fall, Spring.</i>			Concepts in Chemistry: PR: High school Algebra. Concepts will be examined to provide insight into the significant role that chemistry plays in our culture. Intended as a general education course. <i>Fall, Spring.</i>		
CGN 4600	ECS-CEE	3(3,0)	CGS 3269	ECS-CS	3(3,0)	CHM 1032	COS-CHEM	3(3,0)
Public Works Engineering: PR: ENV 3001 and CWR 3201. An overview of planning, design, operation and maintenance of public works, with emphasis on water and wastewater treatment plants. May be repeated for credit. <i>Occasional.</i>			Computer Architecture Concepts: PR: CGS 1060C. CPU organization, current computer architectures, network file servers. <i>Fall, Spring.</i>			General Chemistry: PR: MAC 1105 or MGF 1106 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward Health Science majors. The "NC" grading policy applies to this course. <i>Fall, Spring.</i>		
CGN 4808C	ECS-CEE	3(2,2)	CGS 3285	ECS-CS	3(3,0)	CHM 1032L	COS-CHEM	1(0,3)
Civil Engineering Capstone Design: PR: one of the following courses - TTE 4601C, CES 4608C, CWR 4812C, ENV 4562C, CEG 4801C, or CES 4608C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. <i>Occasional.</i>			Computer Network Concepts: PR: CGS 1060C or equivalent. Network media, protocol, current and evolving standards for local, metropolitan, wide area and wireless networks. <i>Fall, Spring.</i>			General Chemistry Laboratory: PR: or CR: CHM 1032. Preference will be given to students whose major requires this course. An introductory study of physical and chemical properties of elements and compounds. <i>Fall, Spring.</i> M&S fee: \$45.00		
CGN 5320C	ECS-CEE	3(2,2)	CGS 3763	ECS-CS	3(3,0)	CHM 2040C	COS-CHEM	3(2,1)
Geographic Information systems: Programming theory and application of Geographic Information Systems to Civil Engineering projects. <i>Occasional.</i>			Operating System Concepts: PR: CGS 1060C. System calls, concept of processes, CPU scheduling, security issues, client server paradigms, and computer supported workgroups. <i>Occasional.</i>			Chemistry Fundamentals IA: PR: A minimum score of 550 (SAT) or 24 (ACT) in the mathematics section. MAC 1105 recommended. Not open to students with credit in CHM 2045C. Elementary principles of modern chemistry, including units and measures, stoichiometry, energy, chemical calculations, structure and properties of matter, chemical bonding. This course is to be followed by CHM 2041C. The "NC" grading policy applies to this course. <i>Fall.</i>		
CGN 5504C	ECS-CEE	3(2,2)	CGS 4144	ECS-CS	3(3,0)	CHM 2041C	COS-CHEM	3(2,1)
Civil Engineering Materials: PR: EGN 3365, EGN 3331, or C.I. Structure, properties, and applications of materials used in civil engineering including concrete, steel, asphalt, wood, soils, and composite materials. <i>Occasional.</i>			Introduction to Informatics: PR: CGS 3175 and HIM 3006. Computers and mechanical intelligence. The information society. Social and information networks. Technology and its applications. Information organization and structure. Human behavior and communication. <i>Spring.</i>			Chemistry Fundamentals IB: PR: CHM 2040C or its equivalent with a grade of C or better. Not open to students with credit in CHM 2045C. The second semester of CHM 2040C. The states of matter, reaction rates and equilibria, acids and bases. The "NC" grading policy applies to this course. <i>Spring.</i>		
CGN 5506C	ECS-CEE	3(2,2)	CGS 5131	ECS-CS	3(3,0)	CHM 2045C	COS-CHEM	4(3,1)
Asphalt Concrete Mix Design: PR: CEG 011C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation. <i>Occasional.</i>			Computer Forensics I: Seizure and Examination of Computer Systems: PR: 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. <i>Fall.</i>			Chemistry Fundamentals I: PR: A passing score in the Chemistry Placement Exam. Not open to students with credit in both CHM 2040C and CHM 2041C. Basic physical theory of chemical reactivity, atomic structure, chemical bonding, periodicity, stoichiometry, equilibria, thermodynamics, and kinetics. The "NC" grading policy applies to this course. <i>Fall, Spring.</i> M&S fee: \$25.00		
CGS 1060C	ECS-CS	3(2,2)	CGS 5132	ECS-CS	3(3,0)	CHM 2045H	COS-CHEM	4(3,3)
Introduction to Computer Science: History, typical computer, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. <i>Fall, Spring.</i> M&S fee: \$15.00			Computer Forensics II: Network Security, Intrusion Detection, & Forensic Analysis: PR: CGS 5131. Computer network protocols and security, network intrusion detection and prevention, digital evidence collection and evaluation, and legal issues involved in network forensics analysis. <i>Spring.</i>			Honors Chemistry Fundamentals I: PR: High school chemistry and permission of Honors. Not open to students with credit in both CHM 2040C and CHM 2041C. Same as CHM 2045C with honors-level content. <i>Fall, Spring.</i> M&S fee: \$25.00		
CGS 1060H	ECS-CS	3(2,2)	CHI 1120	CAH-LANG	4(4,1)	CHM 2046	COS-CHEM	3(3,0)
Honors Introduction to Computer Science: PR: Permission of Honors. History, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. <i>Occasional.</i> M&S fee: \$15.00			Elementary Chinese Language and Civilization I: Designed to initiate the student to the major language skills: listening, speaking, reading and writing. <i>Fall.</i>			Chemistry Fundamentals II: PR: "C" grade or better in CHM 2045C or CHM 2041C. Continuation of CHM 2045C or the CHM 2040C & CHM 2041C sequence. <i>Fall, Spring.</i>		
CGS 2100C	ECS-CS	3(2,1)	CHI 1120H	CAH-LANG	4(4,0)	CHM 2046H	COS-CHEM	3(3,0)
Computer Fundamentals for Business: Uses of computers and software in business, including business applications, commercial packages, and the internet. Not open to Computer Science majors. <i>Fall, Spring.</i> M&S fee: \$15.00			Honors Elementary Chinese Language and Civilization I: PR: Permission of Honors. Introduces the student to Chinese culture through the major language skills: Listening, speaking, reading and writing. Open only to students with no experience in the language. Honors level content. <i>Occasional.</i>			Honors Chemistry Fundamentals II: PR: CHM 2045H and permission of Honors. Same as CHM 2046 with honors-level content. <i>Spring.</i>		
CGS 2515	ECS-CS	3(3,0)	CHI 1121	CAH-LANG	4(4,1)	CHM 2046L	COS-CHEM	1(0,3)
Spreadsheet Concepts: PR: CGS 1060C. Advanced techniques of spreadsheets, charts, macros, objects, database features and data analysis tools. <i>Occasional.</i>			Elementary Chinese Language and Civilization II: PR: CHI 1120 or equivalent. Continuation of CHI 1120. <i>Spring.</i>			Chemistry Fundamentals Laboratory: CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry. <i>Fall, Spring.</i> M&S fee: \$45.00		
CGS 2545C	ECS-CS	3(2,1)	CHI 1121H	CAH-LANG	4(4,0)	CHM 2046L	COS-CHEM	1(0,3)
Database Concepts: PR: CGS 1060C or equivalent. Entity-relation model, relational database managements systems, normal forms, performance or databases, report generation. <i>Fall, Spring.</i>			Honors Elementary Chinese Language and Civilization II: PR: Permission of Honors. Continuation of CHI 1121H. <i>Occasional.</i>			Honors Chemistry Fundamentals Lab: PR: CHM 2045H and CR: CHM 2046H. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content. <i>Spring.</i> M&S fee: \$35.00		

UCF Courses and Descriptions

CHM 2205	COS-CHEM	5(5,0)	CHM 4220	COS-CHEM	3(3,0)	CHS 1440	COS-CHEM	4(3,1)
Introduction to Organic and Biochemistry: PR: CHM 1032 or equivalent. An introduction to organic chemistry, stressing the chemistry of functional groups and a survey of the biochemistry of proteins, carbohydrates, lipids, and nucleic acids. <i>Spring</i> .			Organic Chemistry III: PR: CHM 2211 or its equivalent. Organic reaction mechanisms and retrosynthetic analysis and their application to synthetic chemistry. <i>Occasional</i> .			Fundamentals of Chemistry for Engineers: PR: One year of high school chemistry or CHM 1032. Basic concepts of chemistry, with emphasis on problem solving and engineering applications. Atomic and molecular structure, states of matter, stoichiometry, equilibria, electrochemistry and thermodynamics. The "NC" grading policy applies to this course. <i>Fall, Spring</i> .		
CHM 2210	COS-CHEM	3(3,0)	CHM 4610	COS-CHEM	3(3,0)	CHS 3501	COS-CHEM	3(3,0)
Organic Chemistry I: PR: CHM 2046. Theory and applications of organic chemistry: structure, bonding, kinetics, thermodynamics, reaction mechanisms, synthesis, and stereochemistry. Structure elucidation via spectrometric techniques. <i>Fall, Spring</i> .			Inorganic Chemistry: CR: CHM 3411. A discussion of descriptive inorganic chemistry based on various bonding theories, thermodynamics, and kinetics. <i>Spring</i> .			Introduction to Forensic Science: PR: 'C' grade or better in CHM 2046 & L, or C.I. Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab). <i>Spring</i> .		
CHM 2211	COS-CHEM	3(3,0)	CHM 4610L	COS-CHEM	2(0,6)	CHS 3505C	COS-CHEM	4(2,6)
Organic Chemistry II: PR: CHM 2210. Continuation of CHM 2210. <i>Fall, Spring</i> .			Inorganic Chemistry Laboratory: PR: CHM 4610. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry. <i>Fall</i> . M&S fee: \$25.00			Forensic Microscopy: PR: 'C' grade or better in CHM 2046 & L, PHY 2054C and CHS 3501. The study of the polarized light microscope and its use in the identification and comparison of trace evidence. <i>Fall</i> . M&S fee: \$45.00		
CHM 2211L	COS-CHEM	2(0,6)	CHM 4914C	COS-CHEM	1(1,1)	CHS 3511C	COS-CHEM	4(2,6)
Organic Laboratory Techniques I: PR: CHM 2210. An introduction to the laboratory techniques of organic chemistry, including the preparation, reaction, and analysis of organic compounds. <i>Fall, Spring</i> . M&S fee: \$45.00			Undergraduate Research Methods: PR: CHM 2211 or C.I. Selection of a research project, instruction in literature searching, seminar preparation, and laboratory techniques beyond the scope of typical chemical laboratories. <i>Fall, Spring</i> .			Trace Evidence: PR: 'C' grade or better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence. <i>Spring</i> . M&S fee: \$45.00		
CHM 3120	COS-CHEM	3(3,0)	CHM 4930	COS-CHEM	1(1,0)	CHS 3514C	COS-CHEM	3(2,3)
Analytical Chemistry: PR: CHM 2046, CHM 2046L. Classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems. <i>Fall, Spring</i> . M&S fee: \$25.00			Undergraduate Chemistry Seminar: PR: CHM 3411 and CHM 4914C. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar. <i>Fall, Spring</i> .			Bomb Scene Investigation: PR: Forensic Science major, CHS 3501 or C.I. Procedures for recognizing, collecting, preserving, and analysis of evidence from a post blast bombing crime scene. May be repeated for credit. <i>Occasional</i> .		
CHM 3120L	COS-CHEM	1(0,3)	CHM 5225	COS-CHEM	3(3,0)	CHS 3530C	COS-CHEM	4(2,6)
Analytical Chemistry Laboratory: PR: CHM 2046, CHM 2046L. Experimental exercise of quantitative methods of analysis using titrimetric, gravimetric, potentiometric and photometric methods of analysis including statistical treatment of experimental data. <i>Occasional</i> . M&S fee: \$25.00			Advanced Organic Chemistry: PR: 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. <i>Odd Fall</i> .			Forensic Analysis of Controlled Substances: PR: 'C' grade or better in CHM 3120, CHM 3410, CHM 2211, CHM 2211L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances. <i>Fall</i> . M&S fee: \$45.00		
CHM 3120L	COS-CHEM	1(0,3)	CHM 5235	COS-CHEM	3(3,0)	CHS 3533	COS-CHEM	2(2,0)
Analytical Chemistry Laboratory: PR: CHM 2046, CHM 2046L. Experimental exercise of quantitative methods of analysis using titrimetric, gravimetric, potentiometric and photometric methods of analysis including statistical treatment of experimental data. <i>Occasional</i> . M&S fee: \$25.00			Applied Molecular Spectroscopy: PR: 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. <i>Occasional</i> .			Forensic Biochemistry I: PR: 'C' or better in BSC 2010C, PCB 3063 & L, and PCB 3233 & L. Concepts and procedures of contemporary forensic biochemistry, including the identification of body fluids and the use of genetic markers to establish identity. <i>Fall</i> . M&S fee: \$30.00		
CHM 3212L	COS-CHEM	2(0,6)	CHM 5305	COS-CHEM	3(3,0)	CHS 3533L	COS-CHEM	1(0,3)
Organic Laboratory Techniques II: PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. <i>Fall</i> . M&S fee: \$45.00			Applied Biological Chemistry: PR: CHM 2211, and graduate status or senior standing or C.I. The identification from plants, synthesis, assessment of bioactivity, and design of pharmaceuticals and agrochemicals, as well as the impact of biotechnology in the chemical industry. <i>Occasional</i> .			Forensic Biochemistry I Laboratory: PR: 'C' or better in BSC 2010C, PCB 3063 & L, PCB 3233 & L and PR: or CR: CHS 3533C. Concepts and procedures of contemporary forensic biochemistry. Emphasis on techniques and procedures used in operational crime laboratories in the U.S. <i>Fall</i> .		
CHM 3410	COS-CHEM	4(3,1)	CHM 5450	COS-CHEM	3(3,0)	CHS 3540C	COS-CHEM	2(1,3)
Physical Chemistry I: PR: CHM 2046, PHY 2049, and MAC 2312. Rigorous treatment of atomic and molecular structure, thermodynamics, kinetics, and chemical bonding. <i>Fall</i> .			Polymer Chemistry: PR: 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. <i>Even Fall</i> .			Fire and Debris Analysis I: PR: CHM 3120 and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence. <i>Occasional</i> .		
CHM 3411	COS-CHEM	3(3,0)	CHM 5451C	COS-CHEM	3(1,5)	CHS 3595	COS-CHEM	3(3,0)
Physical Chemistry II: PR: CHM 3410. Continuation of CHM 3410. <i>Spring</i> .			Techniques in Polymer Science: PR: 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. <i>Odd Spring</i> . M&S fee: \$45.00			Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings. <i>Spring</i> .		
CHM 3411L	COS-CHEM	2(0,6)	CHM 5580	COS-CHEM	3(3,0)	CHS 3949	COS-CHEM	0(0,8)
Physical Chemistry Laboratory: PR: CHM 3120 and CR: CHM 3411. Classical as well as modern instrumental techniques coupled with computer data processing to measure physical properties and determine atomic and molecular parameters. <i>Spring</i> . M&S fee: \$41.00			Advanced Physical Chemistry: CR: CHM 3411 and PR: MAC 2313, and graduate status or senior standing or C.I. Selected topics of thermodynamics, kinetics, quantum mechanics, and structure. <i>Occasional</i> .			Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. Graded S/U. May be repeated for credit. <i>Occasional</i> .		
CHM 3422	COS-CHEM	3(3,0)	CHM 5715C	COS-CHEM	3(2,3)	CHS 4200	COS-CHEM	3(3,0)
Applied Physical Chemistry: PR: PHY 2049 and PHY 2049L and MAC 2312. Physical chemistry as applied to the study of biological and forensic science. <i>Fall</i> .			Optical Materials Processing and Characterization Techniques: PR: CHM 3411 and CHM 4610 or equivalent. Glasses, crystals and polymeric materials will be processed and characterized for their properties. Laboratory will emphasize material structure and physical property relationships. <i>Occasional</i> .			Concepts in Industrial Chemistry: PR: CHM 3410. An introduction to industrial practices, emphasizing the application of chemical principles in the development of a commercial process or product. <i>Occasional</i> .		
CHM 4130	COS-CHEM	3(3,0)				CHS 4506C	COS-CHEM	3(2,3)
Advanced Analytical Laboratory Technique: PR: CHM 2211, CHM 3120 (with a minimum grade of "C" or 2.0) and CR: CHM 3411 or PR: CHM 3422. Modern methods of analysis including electrochemistry, spectroscopy, and separation techniques. <i>Spring</i> .						Forensic Investigation Technology: PR: A grade of "C" or better in CHS 3511C. Modern technology applied to forensic investigation. <i>Occasional</i> .		
CHM 4130L	COS-CHEM	2(0,6)						
Advanced Analytical Chemistry Laboratory: PR: or CR: CHM 4130. This course focus on the experimental exercise of instrumental methods of analysis. Successful students will develop practical skills performing experiments based on spectroscopic and chromatographic methods of analysis. Statistical data treatment of experimental results will be also exercised. <i>Spring</i> . M&S fee: \$25.00								

<p>CHS 4515C COS-CHEM 4(2,6) Forensic Crime Scene Investigation: PR: Grade of 'C' or better in CHM 3120, CHS 3511C, CHS 3530C, CHS 3533C and CHS 4506C. Procedures for the investigation of arson, explosives, and crime scenes. <i>Occasional.</i></p>	<p>CIS 3362 ECS-CS 3(3,0) Cryptography and Information Security: PR: COP 3223 or EGN 3211 or CET 2364, and MAC 2147 or equivalent. Encryption algorithms and ciphers. Public and private keys. Key infrastructures. Authentication, confidentiality, integrity, and nonrepudiation. Digital signatures and certificates. Hash and digest algorithms. Standards. <i>Occasional.</i></p>	<p>CJE 4014 HPA-CJ/LS 3(3,0) Police and Society: PR: CCJ 3024 or C.I. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture. <i>Fall, Spring.</i></p>
<p>CHS 4532 COS-CHEM 3(3,0) Interpretation of DNA Evidence: PR: Grade of "C" or better in CHS 3533C. Concepts and principles of genetic data analysis as applied to forensics. <i>Occasional.</i></p>	<p>CIS 4361 ECS-CS 3(3,0) Secure Operating Systems and Administration: PR: COP 4600 or EEL 4882 or CET 4505. Understanding of secure operating systems requirements, design principles and theories, protection methods, access control, authentication, vulnerability, analysis and case studies. <i>Occasional.</i></p>	<p>CJE 4174 HPA-CJ/LS 4(4,0) Comparative Justice Systems: PR: CCJ 3024 and CJL 3510 or C.I. A survey of contemporary foreign criminal justice and differences emerging from various political, cultural and legal systems. <i>Occasional.</i></p>
<p>CHS 4534C COS-CHEM 3(1,6) Forensic Biochemistry II: PR: CHS 3533C and C.I. Advanced treatment of the theoretical and practical aspects of forensic DNA analysis and the use of population genetics and genetic data analysis for evidence interpretation. <i>Spring.</i> M&S fee: \$45.00</p>	<p>CIS 4363 ECS-CS 3(3,0) Network Security and Privacy: PR: CDA 4506C or equivalent, CIS 3360, CIS 3362, and COP 3503C. Fundamentals of network security, protocols, secure applications, network intrusion detection, security policy, firewalls, and privacy issues. <i>Occasional.</i></p>	<p>CJE 4410 HPA-CJ/LS 3(3,0) Community Policing: PR: CCJ 3014, CJE 4014. The viability of community policing. The theoretical basis for community interventions are related to the daily operations required by community policing. <i>Occasional.</i></p>
<p>CHS 4537 COS-CHEM 2(2,0) Forensic Laboratory Quality Assurance: PR: Grade of "C" or better in CHS 3501, CHS 3505C, and CHS 3533C. Concepts and principles of quality assurance and quality systems management in forensic laboratories. <i>Odd Fall.</i></p>	<p>CIS 4615 ECS-CS 3(3,0) Secure Software Development and Assurance: PR: CDA 4506C or equivalent, COP 4331C, CIS 3360, and CIS 3362. Thread modeling, Secure code life-cycle, Buffer overflows, race conditions and format string problems, Inputs and clients, File system, Cryptography applications, UMLsec, Java security and Reverse engineering. <i>Occasional.</i></p>	<p>CJE 4630 HPA-CJ/LS 3(3,0) Serial Murder and Criminal Justice: PR: CCJ 3014 or C.I. Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution. <i>Occasional.</i></p>
<p>CHS 4541C COS-CHEM 2(1,3) Fire and Debris Analysis II: PR: CHS 3540C or C.I. An advanced lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in real fire related evidence. <i>Occasional.</i></p>	<p>CJC 3010 HPA-CJ/LS 3(3,0) The Corrections and Penology: PR: CCJ 3024 or C.I. Theories, structures, and methods of institutional and non-institutional processing and treatment of convicted criminals and juvenile offenders. <i>Fall, Spring.</i></p>	<p>CJE 4654 HPA-CJ/LS 3(3,0) Crime and Place: PR: CCJ 3024. Provides an understanding of how physical environmental features - the natural and built environment - influences crime events. <i>Occasional.</i></p>
<p>CHS 4547C COS-CHEM 3(2,3) Advanced Topics in Trace Analysis: PR: CHS 3511C, CHM 4130C, or C.I. Recovery and analysis of forensic trace evidence. <i>Occasional.</i> M&S fee: \$39.00</p>	<p>CJC 3134 HPA-CJ/LS 3(3,0) Prisons and jails: PR: CJC 3010. An overview and analysis of issues in institutional corrections, focussing on prison and jail history, inmates, guards, administration and management, and programming. <i>Occasional.</i></p>	<p>CJE 4663 HPA-CJ/LS 3(3,0) Crime Analysis I: PR: CJE 4654. Provides the essential data analysis skills necessary to effectively analyze crime, understand crime data structures and the problems inherent in crime data. <i>Occasional.</i></p>
<p>CHS 4591 COS-CHEM 4(0,4,0) Forensic Science Internship: PR: Senior standing, within 8 hrs. of completion of degree requirements, and 2.5 overall GPA. Credit for full-time work (15 weeks: 600 hours) for a professional forensic laboratory. May be repeated for credit. <i>Occasional.</i></p>	<p>CJC 3164 HPA-CJ/LS 3(3,0) Community-Based Corrections: PR: CCJ 3024 and CJC 3010 or C.I. An overview and analysis of correction interventions and treatment programs in the community. <i>Occasional.</i></p>	<p>CJE 5688 HPA-CJ/LS 3(3,0) Cyber Crime and Criminal Justice: PR: CCJ 5015. Deals with the problem of cyber crime and the criminal use of the Internet. Includes investigation, enforcement and legal issues. <i>Occasional.</i></p>
<p>CHS 4615 COS-CHEM 3(3,0) Environmental Chemistry: PR: CHM 2046, senior level in biological, molecular, chemical or engineering sciences, or C.I. Principles of environmental chemistry, survey of environmental law, remediation technologies, industrial practices and environmentally responsible chemistry. <i>Odd Spring.</i></p>	<p>CJC 4410 HPA-CJ/LS 3(3,0) Correctional Interventions in Criminal Justice: PR: CCJ 3014. Intervention techniques used with juvenile and adult offenders in institutional and community-based settings and study of the theoretical foundations. <i>Occasional.</i></p>	<p>CJJ 4564 HPA-CJ/LS 3(3,0) Delinquency Control: PR: CCJ 3024 and CJL 3510 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices. <i>Fall, Spring.</i></p>
<p>CHS 5502 COS-CHEM 3(3,0) Principles of Forensic Science: PR: Admission to Forensic Science M.S. 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. <i>Occasional.</i></p>	<p>CJC 5020 HPA-CJ/LS 3(3,0) Foundations of Corrections: PR: C.I. Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices. <i>Occasional.</i></p>	<p>CJL 3110 HPA-CJ/LS 3(3,0) Criminal Law in Action: Basic concepts of criminal law: elements of major crimes, criminal responsibility, defenses, and parties to crime. <i>Fall, Spring.</i></p>
<p>CHS 5503 COS-CHEM 3(3,0) Topics in Forensic Science: PR: Graduate status or C.I. Will include the history of Forensic Science and current issues such as Digital Evidence. <i>Occasional.</i></p>	<p>CJC 3001 HPA-CJ/LS 3(3,0) Careers in Criminal Justice: PR: CCJ 3024 or C.I. Introductory course with focus on components of the Criminal Justice process (law enforcement, courts, and corrections) and employment opportunities within the criminal justice system. <i>Fall, Spring.</i></p>	<p>CJL 3510 HPA-CJ/LS 3(3,0) Prosecution and Adjudication: PR: CCJ 3024 or PLA 3013 or C.I. Examination of structures and goals of offices and prosecution and criminal trial courts, and of the processes of charging, adjudicating, and sentencing defendants. <i>Fall, Spring.</i></p>
<p>CHS 5518 COS-CHEM 3(3,0) The Forensic Collection and Examination of Digital Evidence: PR: 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. <i>Occasional.</i></p>	<p>CJE 3444 HPA-CJ/LS 3(3,0) Crime Prevention: PR: CCJ 3024 or C.I. An overview and analysis of crime prevention strategies used in the private and public sectors. <i>Fall, Spring.</i></p>	<p>CJL 4010 HPA-CJ/LS 3(3,0) Legal Aspects of Policing: PR: CJE 4014. The legal dimensions of various police decision-making stages; including stops and frisks: arrests; searches and seizures wiretappings; and, interrogations. <i>Occasional.</i></p>
<p>CHS 5596 COS-CHEM 3(3,0) The Forensic Expert in the Courtroom: PR: CHS 3533C, CHS 6535, CHS 6536, or C.I. A study of the uses of technically and scientifically trained expert witnesses at trial. <i>Spring.</i></p>	<p>CJE 3662 HPA-CJ/LS 3(3,0) CJ Information Technology and Data Management: PR: CCJ 3024. Designed to familiarize with concepts of databases, uses, and applicability to crime analysis. <i>Occasional.</i></p>	<p>CJL 4410 HPA-CJ/LS 3(3,0) Legal Aspects of the Criminal Court Process: PR: CJL 3510. The legal dimension of various criminal court decision making stages, including: bail; charging; preliminary hearing; grand jury; pretrial hearings plea hearings; trial; and, sentencing. <i>Occasional.</i></p>
<p>CIS 3360 ECS-CS 3(3,0) Security in Computing: PR: COP 3223 or EGN 3211 or CET 2364. Security theory. Legal and human factors, Malware, Intrusion patterns and tools, Windows, Unix, TCP/IP, and applications vulnerabilities. Detection. Policies and enforcement. Protection and assurance. <i>Occasional.</i></p>	<p>CJL 4514 HPA-CJ/LS 3(3,0) Criminal Sentencing: PR: CCJ 3024, CJL 3510. Examines the myriad theoretical, empirical and operational issues involved in criminal sentencing policy in American society. <i>Occasional.</i></p>	

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<p>CJT 3803 HPA-CJ/LS 3(3,0) Security Management: PR: CCJ 3024. Examination of a global security management environment impacted by downsizing a dramatically changing work force, religious extremism/terrorism, technological revolution and other challenges. <i>Occasional.</i></p>	<p>CLP 3302 COS-PSYCH 3(3,0) Clinical Psychology: PR: PPE 3003 and CLP 3143. An overview of approaches to psychopathology, methods of clinical assessment, and various approaches to individual and group counseling. <i>Fall, Spring.</i></p>	<p>COM 3011C COS-COMM 3(1,2) Communication and Human Relations: PR: or CR: COM 3311. Semantics; symbols and meaning and their relationship with human behavior. <i>Fall, Spring.</i></p>
<p>CJT 3804 HPA-CJ/LS 3(3,0) Security Administration: Discussion of modern security administration and the security-law enforcement interface, emphasizing a systems approach and utilizing the design of a security plan for a plant. <i>Occasional.</i></p>	<p>CLP 3413 COS-PSYCH 3(3,0) Contemporary Behavior Therapy: PR: CLP 3143. Emphasis on the underlying principles and the specific intervention procedures which are utilized in contemporary behavior therapy, including treatment strategies for particular behavior disorders. <i>Occasional.</i></p>	<p>COM 3013 COS-COMM 3(3,0) Communication and the Family: PR: SPC 1600. The ways members of a family unit interact verbally and nonverbally to influence one another. <i>Even Fall.</i></p>
<p>CJT 3819 HPA-CJ/LS 3(3,0) Physical Security: PR: C.J. major or minor or C.I./CCJ 3024. Concepts and procedures for the development, implementation, and management of a physical security program and its application to assets protection. <i>Occasional.</i></p>	<p>CLP 3467C COS-PSYCH 3(2,2) Interpersonal Effectiveness and Group Psychotherapy: PR: PSY 2012. Psychological aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth. <i>Occasional.</i></p>	<p>COM 3110 COS-COMM 3(3,0) Business and Professional Communication: PR: Majors only, SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and professions. <i>Fall, Spring.</i></p>
<p>CJT 3821 HPA-CJ/LS 3(3,0) Practical Security Applications: An examination of basic security principles applied to practical specific security situations encountered in the Central Florida area. <i>Occasional.</i></p>	<p>CLP 4134 COS-PSYCH 3(3,0) Childhood Psychopathology: PR: PSY 2012, CLP 3143, DEP 2004, PPE 3003. An in-depth survey of the prevalence, classification, symptoms, diagnosis, consequences, and treatments of disorders of infancy, childhood, and adolescence. <i>Fall, Odd Spring.</i></p>	<p>COM 3110H COS-COMM 3(3,0) Honors Business and Professional Communication: PR: Majors only, SPC 1600 or C.I. and consent of Honors. Theoretical and practical training in effective presentational speaking for business and professions. With Honors content. <i>Occasional.</i></p>
<p>CJT 3842 HPA-CJ/LS 3(3,0) Special Security Problems: Review and application of basic security principles to retail security, transportation/cargo security, utility security, computer security, and other special security situations. <i>Occasional.</i></p>	<p>CLP 4314 COS-PSYCH 3(3,0) Health Psychology: PR: CLP 3143, PSB 3002, PPE 3003. Interactions between psychosocial and physical conditions, in prevention, diagnosis, intervention and health care delivery policy planning. Course will cover empirical phases for prevention, assessment and intervention approaches for these focal areas: cancer, chronic heart disease, diabetes, HIV disease, pain and stress. <i>Occasional.</i></p>	<p>COM 3120 COS-COMM 3(3,0) Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies. <i>Fall, Spring.</i></p>
<p>CJT 4100 HPA-CJ/LS 3(3,0) Criminal Investigation: PR: CJE 4014. Course acquaints students with basic Procedures used in Criminal investigations, purpose of investigations, and ingredients for successful investigations. <i>Fall, Spring.</i></p>	<p>CLP 4390 COS-PSYCH 3(3,0) Forensic Psychology: PR: PSY 2012 and SOP 3751. Clinical practice of psychology within the legal system, including forensic evaluation of competency/insanity, treatment, and criminal profiling. <i>Spring.</i></p>	<p>COM 3311 COS-COMM 3(3,0) Communication Research Methods: PR: STA 2014C. Research methods used in communication. Understanding and interpretation of original research emphasized. <i>Fall, Spring.</i></p>
<p>CJT 4843 HPA-CJ/LS 3(3,0) Risk Management in Criminal Justice/Private Security: PR: CJT 3804. This course examines the concept of risk management in a criminal justice context. <i>Occasional.</i></p>	<p>CLP 4402C COS-PSYCH 3(2,2) Psychology of Physical Disability: PR: PSY 2012. Psychological aspects of physical disability and rehabilitation. Psychological adjustment, body-mind relationships, family and societal dynamics relative to therapeutic intervention. <i>Occasional.</i></p>	<p>COM 3330 COS-COMM 3(3,0) Computer Mediated Communication: PR: CGS 1060C. Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations. <i>Even Spring.</i></p>
<p>CLA 3850 CAH-PHIL 3(3,0) Classical Mythology: PR: ENC 1102 and either HUM 2210, REL 2300, WOH 2012, or LIT 2110. Myths of the Greeks & Romans studied through excerpts from ancient sources and experienced through works of art, literature, and music. <i>Occasional.</i></p>	<p>CLP 5166 COS-PSYCH 3(3,0) Advanced Abnormal Psychology: PR: 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. <i>Occasional.</i></p>	<p>COM 3332 COS-COMM 3(3,0) Communication, Technology, and Change: PR: SPC 1600. How new technologies influence (and are influenced by) communication in a variety of contexts, including organization and interpersonal settings. <i>Spring.</i></p>
<p>CLA 3851 CAH-PHIL 3(3,0) Comparative Mythology: PR: ENC 1102 and either HUM 2230, REL 2300, WOH 2022, LIT 2120, or CLA 3850. Common themes found in the myths of various cultures; theories of their origins, meaning and value in human experience. <i>Occasional.</i></p>	<p>CLP 5187 COS-PSYCH 3(3,0) Mental Health and Aging: PR: Graduate status or senior standing or C.I. Introduction to assessment and intervention issues, practice and research related to problems with cognitive and emotional functioning among older adults. May be repeated for credit. <i>Occasional.</i></p>	<p>COM 3406 COS-COMM 3(3,0) Role of Motivation in Communication: PR: COM 3311. Motivation theories that directly affect the process of human communication. <i>Occasional.</i></p>
<p>CLP 3004 COS-PSYCH 3(3,0) Behavioral Self Control: PR: PSY 2012. Application of behavioral and biofeedback techniques to self-regulation. <i>Occasional.</i></p>	<p>CMC 4240 COS-R/TV 3(1,2) Corporate/Institutional Video: PR: RTV 3200, RTV 3260C (RTV 3260C may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation. <i>Occasional.</i></p>	<p>COM 4014 COS-COMM 3(3,0) Gender Issues in Communication: PR: SPC 1600 and Junior Standing. A study of how communication exchanges, both verbal and non-verbal, differ between men and women, and how these differences are manifested. <i>Occasional.</i></p>
<p>CLP 3143 COS-PSYCH 3(3,0) Abnormal Psychology: PR: PSY 2012 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior. <i>Fall, Spring.</i></p>	<p>COM 1000 COS-COMM 3(3,0) Communication: Basic factors affecting human interaction through communication, theories and models of communication. <i>Fall, Spring.</i></p>	<p>COM 4461 COS-COMM 3(3,0) Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts. <i>Fall, Even Spring.</i></p>
<p>CLP 3143H COS-PSYCH 3(3,0) Honors Abnormal Psychology: PR: PSY 2012 and PPE 3003 and consent of Honors. Classification, causation, and treatment of deviant patterns of behavior. With Honors content. <i>Spring.</i></p>	<p>COM 2347C COS-COMM 1(1,1) Sports Speaking and Interviewing: PR: SPC 1600. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded S/U. <i>Occasional.</i></p>	<p>COP 2200 ECS-CS 3(3,0) Computer Programming: PR: College algebra and trigonometry or equivalent. Problem definitions, algorithms, flow charts, digital computer programming using a higher level language (FORTRAN). Not open to Computer Science Majors. <i>Occasional.</i></p>
<p>CLP 3184 COS-PSYCH 3(3,0) Women's Mental Health: PR: PSY 2012. Social and cultural factors of mental health issues and conditions that are unique to or primarily impact women in the U.S. today. <i>Occasional.</i></p>		<p>COP 2500C ECS-CS 4(3,1) Concepts in Computer Science: Fundamental concepts in program design, data structures, algorithms, analysis and a survey of topics in CS. Not open to Computer Science majors. <i>Fall, Spring.</i></p>

COP 3223	ECS-CS	3(3,0)	Introduction to Programming with C: Equivalent to EGN 3211. Programming in C including arrays, pointer manipulation and use of standard C math and IO libraries. <i>Fall, Spring.</i>
COP 3330	ECS-CS	3(3,0)	Object Oriented Programming: PR: COP 3223. Object oriented programming concepts (classes, objects, methods, encapsulating, inheritance, interfaces) and the expression of these concepts in the programming languages such as JAVA. <i>Fall, Spring.</i>
COP 3346	ECS-CS	3(3,0)	Unix Programming: PR: Knowledge of a high level language. Unix file system, shells, shell programming, filters and program development in Unix. <i>Occasional.</i>
COP 3402	ECS-CS	3(3,0)	Systems Software: PR: COP 3502C. Design and development of assemblers, linkers, loaders, and compilers. Study memory hierarchy, program performance, and system level I/O. <i>Fall, Spring.</i>
COP 3502C	ECS-CS	3(3,0)	Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion. <i>Fall, Spring.</i>
COP 3502H	ECS-CS	3(3,0)	Honors Computer Science I: PR: Permission of Honors and COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion. <i>Occasional.</i>
COP 3503C	ECS-CS	4(3,1)	Computer Science II: PR: COP 3502C and COT 3100C and (MAD 2104 and COP 3330). Algorithm design and analysis for tree, list, set, and graph data models; algorithmic strategies and applications, and algorithmic complexity analysis; sorting and searching; practical applications. <i>Fall, Spring.</i>
COP 3503H	ECS-CS	4(3,1)	Honors Computer Science II: PR: Permission of Honors and (COP 3502H or COP 3502C) and COP 3330 and (MAD 2104 or COT 3100C). Algorithm design and analysis for tree, list, set, and graph data models; algorithmic strategies and applications, and algorithmic complexity analysis; sorting and searching; practical applications. With honors content. <i>Fall.</i>
COP 3530C	ECS-CS	3(3,0)	Computer Science III: PR: COT 3960 Foundation Exam. Algorithm design and analysis for tree, list, set, relational and graph data models; effects of representation on algorithmic complexity. Introduction to parallel implementations. <i>Occasional.</i>
COP 4020	ECS-CS	3(3,0)	Programming Languages I: PR: COP 3503C and COT 3960. Paradigms and fundamental concepts of programming languages are presented, including: scope, binding, abstraction, encapsulation, typing etc. Design paradigms object-oriented, functional and logic programming are presented. <i>Fall, Spring.</i>
COP 4331C	ECS-CS	4(3,1)	Processes for Object-Oriented Software Development: PR: COT 3960 (Foundation Exam) and COP 3503C. Concepts, principles, processes and methods for developing large software systems featuring a team project in discrete-event simulation using object-oriented design in UML and implementation in C++. <i>Occasional.</i>
COP 4516C	ECS-CS	3(1,3)	Problem Solving Techniques and Team Dynamics: PR: COP 3530C. Design and implement solutions to problems requiring the applications of the different algorithms. Team project format. <i>Even Spring.</i>
COP 4520	ECS-CS	3(3,0)	Concepts of Parallel and Distributed Processing: PR: COP 3402 and COP 3503C and COT 3960. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms. <i>Occasional.</i>
COP 4521	ECS-CS	3(3,0)	Projects in Parallel and Distribution Processing: PR: COP 4520. Research and projects related to emerging architectures, computational models, languages and environments for parallel and distributed computation. <i>Occasional.</i>
COP 4600	ECS-CS	3(3,0)	Operating Systems: PR: COP 3402 and COP 3503C and COT 3100C. The goal of the course is to teach the function and organization of operating systems, process management, virtual memory, I/O management, and file management. <i>Fall, Spring.</i>
COP 4610L	ECS-CS	3(0,3)	Operating Systems Laboratory: PR: COP 3503C. CR: EEL 4882. Exercises in the configuration, development, management and analysis of operating systems: OS Kernel support for semaphores and multi-tasking; security in a distributed heterogeneous environment. <i>Fall, Spring.</i>
COP 4710	ECS-CS	3(3,0)	Database Systems: PR: COP 3503C. Storage and access Structures, database models and languages, related database design, and implementation techniques for database management systems. <i>Fall, Spring.</i>
COP 4910	ECS-CS	3(3,0)	Frontiers in Information Technology: PR: COP 4610L, CET 4741L. Research into leading edge information technologies that have a high likelihood of affecting the work place in the two to five year time frame. <i>Fall, Spring.</i>
COP 5021	ECS-CS	3(3,0)	Program Analysis: PR: COP 4020 and COT 4210. Syntactic and Semantic analysis of programs. Theoretical and practical limitations, attribute evaluation, data flow analysis, program optimization, intermediate representations code generation. Tools to automate analysis. <i>Occasional.</i>
COP 5537	ECS-CS	3(3,0)	Network Optimization: Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportation, web and other applications. <i>Fall.</i>
COP 5611	ECS-CS	3(3,0)	Operating Systems Design Principles: PR: 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. <i>Spring.</i>
COP 5711	ECS-CS	3(3,0)	Parallel and Distributed Database Systems: PR: COP 4710. Storage manager, implementation techniques for parallel DBMSs, distributed DBMS architectures, distributed database design, query processing, multidatabase systems. <i>Occasional.</i>
COT 3100C	ECS-CS	3(3,1)	Introduction to Discrete Structures: PR: MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphics, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity. <i>Fall, Spring.</i>
COT 3100H	ECS-CS	3(3,0)	Honors Introduction to Discrete Structures: PR: Permission of Honors and MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphics, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity. <i>Occasional.</i>
COT 3960	ECS-CS	0(1,0)	CS Foundation Exam: PR: COP 3502C AND COT 3100C. Foundation examination for computer science majors. Required before taking advanced core courses in Computer Science and upper-division 4000 and 5000 level CS electives. Graded S/U. <i>Fall, Spring.</i>
COT 4210	ECS-CS	3(3,0)	Discrete Structures II: PR: COP 3503C and COT 3960. Computation Theory. A study of the properties of grammars and automata as formal specifications for algorithms and families of languages. <i>Fall, Spring.</i>
COT 4400	ECS-CS	3(3,0)	Tools for Algorithm Analysis: PR: COT 3960 and COP 3503C. Tools from discrete and continuous mathematics for analyzing complexity of algorithms. Order notation use and manipulation. <i>Fall, Spring.</i>
COT 4500	ECS-CS	3(3,0)	Numerical Calculus: PR: MAC 2312 and COP 3502C. Numerical methods for finding roots of nonlinear equations, solutions of systems of linear equations, and ordinary differential equations. <i>Occasional.</i>
COT 4810	ECS-CS	3(3,0)	Topics in Computer Science: PR: COP 3402 and COP 3503C and COT 3960. A range of topics from the field of Computer science: application of oral and written communication skills; social, ethical and moral issues of computing. <i>Fall, Spring.</i>
COT 5310	ECS-CS	3(3,0)	Formal Languages and Automata Theory: PR: COP 4020 and COT 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. LR(K) grammars. <i>Fall, Spring.</i>
COT 5405	ECS-CS	3(3,0)	Design and Analysis of Algorithms: PR: 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. <i>Fall, Spring.</i>
COT 5507	ECS-CS	3(3,0)	Computational Methods/Applications: PR: COT 4500. Computational solution techniques for algebraic equations, ODE and PDE Models of applications selected from science, engineering, applied mathematics, and computer science. <i>Occasional.</i>
COT 5510	ECS-CS	3(3,0)	Computational Methods/Linear Systems: PR: COT 4500 and MAS 3106. Mathematical models for linear systems, linear programming, the simplex method, integer and mixed-integer programming, introduction to nonlinear optimization and linearization. <i>Occasional.</i>
COT 5520	ECS-CS	3(3,0)	Computational Geometry: CR: COT 5405. Geometric searching, point location, convex hulls, proximity problems, Voronoi diagrams, spanning trees, triangulation, intersection arrangement applications. <i>Occasional.</i>
CPO 3034	COS-POLS	3(3,0)	Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations. <i>Even Fall.</i>
CPO 3103	COS-POLS	3(3,0)	Comparative Politics: PR: POS 2041 or C.I. Government and politics in selected nations, with emphasis upon comparative analysis of contemporary problems, politics, political culture, behavior, and institutions. <i>Spring.</i>
CPO 3104	COS-POLS	3(3,0)	Politics of Western Europe: PR: POS 2041 or C.I. An examination of the political and economic dynamics of Western Europe in the post-1945 era. <i>Odd Spring.</i>

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CPO 3132	COS-POLS	3(3,0)	CPO 4754	COS-POLS	3(3,0)	CRW 3311	CAH-ENG	3(3,0)
Canadian Studies: A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy. <i>Occasional.</i>			Comparative Political Institutions: PR: POS 2041, Jr. standing or C.I. The course analyzes major types of political institutions from a comparative perspective including electoral laws, division of power, types of democracy, federalism, and the judiciary. <i>Occasional.</i>			Structure of Verse: PR: Grade of C (2.0) or better required in ENC 1102. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, scansion, and poetic rhetorical devices. <i>Occasional.</i>		
CPO 3403	COS-POLS	3(3,0)	CPO 4784	COS-POLS	3(3,0)	CRW 3540	CAH-ENG	3(3,0)
Politics of the Middle East: PR: POS 2041 or C.I. An examination of the dynamics of Middle East politics, including both regional and international dimensions. <i>Even Fall, Spring.</i>			Political and Economic Inequality in Comparative Perspective: PR: POS 2041, Jr. standing or C.I. Economic and political inequality and the nature of the link between them across countries with different political and economic institutions. <i>Occasional.</i>			Literary Magazines: PR: Grade of C (2.0) or better required in CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature. <i>Occasional.</i>		
CPO 3403H	COS-POLS	3(3,0)	CPO 5334	COS-POLS	3(3,0)	CRW 3610	CAH-ENG	3(3,0)
Honors Politics of the Middle East: PR: Permission of Honors. An examination of the dynamics of Middle East politics, including both regional and international dimensions. Honors level content. <i>Occasional.</i>			Contemporary Politics of the Mayan Region: PR: Graduate status or senior standing or C.I. Analysis of issues affecting all peoples living in the contemporary Mayan region of southern Mexico, Belize, Guatemala, and El Salvador. <i>Occasional.</i>			Writing Scripts: PR: Grade of C (2.0) or better required in CRW 3013 or C.I. Theory and practice of writing scripts for film and TV. <i>Fall, Spring.</i>		
CPO 3614	COS-POLS	3(3,0)	CRW 2100	CAH-ENG	3(3,0)	CRW 4014	CAH-ENG	3(3,0)
Politics of Eastern Europe: PR: POS 2041 or C.I. An examination of the political and economic dynamics of Eastern Europe in the post-1945 era. <i>Occasional.</i>			Fiction Writing: PR: CRW 3013. English majors in creative writing specialize in fiction writing; advanced group analysis and criticism of work produced by individual students. <i>Occasional.</i>			The Writing Life: Writers' Fictions and Practices: PR: CRW 2100, CRW 2300 or CRW 3211. Critical/non-fiction/craft works and fictional works by a series of authors. <i>Occasional.</i>		
CPO 4047	COS-POLS	3(3,0)	CRW 2300	CAH-ENG	3(3,0)	CRW 4114	CAH-ENG	3(3,0)
Politics of the NAFTA Region: PR: POS 2041 or C.I. Contemporary politics of the NAFTA region, analyzing important political and socio-economic issues. <i>Occasional.</i>			Theory and Practice of Poetry Writing: PR: CRW 3013, English or English Education major, Junior standing, or C.I. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism. <i>Occasional.</i>			History of Prose Style: PR: Grade of C (2.0) or better required in ENC 1102. A review of English prose style from 1611 to 1960. <i>Occasional.</i>		
CPO 4062	COS-POLS	3(3,0)	CRW 3010H	CAH-ENG	3(3,0)	CRW 4122	CAH-ENG	3(3,0)
Comparative Judicial Process: Study of courts and judges in cross national context. Focus upon judicial recruitment, decisional patterns, and policy outcomes. <i>Occasional.</i>			Honors Creative Writing: PR: Honors GEP completion and permission of Honors. Theory and techniques of literary genres with honors level content; practice and critique of original writing by peers and critical reading of established authors. <i>Occasional.</i>			Advanced Fiction Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3120. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be used in the degree program a maximum of 2 times. <i>Fall, Spring.</i>		
CPO 4074	COS-POLS	3(3,0)	CRW 3011	CAH-ENG	3(3,0)	CRW 4123	CAH-ENG	3(3,0)
Political Economy: PR: Junior standing or C.I. Interrelationship of political and economic phenomena of both advanced industrial societies and less developed countries. <i>Even Fall.</i>			Creative Writing for Non-Majors: PR: ENC 1102. The techniques of literary genres; the practice and critique of original work by peers; critical reading of established authors. Designed for non-majors. Not open to students with credit in CRW 3013. <i>Fall, Spring.</i>			Science Fiction Writing: PR: CRW 3013. Study of science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments. <i>Occasional.</i>		
CPO 4101	COS-POLS	3(3,0)	CRW 3013	CAH-ENG	3(3,0)	CRW 4224	CAH-ENG	3(3,0)
Politics of the European Union: PR: POS 2041 or C.I. Evolution of the European Union, theories of the EU and EU institutions and policies from a comparative perspective. <i>Spring.</i>			Creative Writing for English Majors: PR: English or English Education major, Junior standing, or C.I., and C (2.0) or better required in ENC 1102. Not open to students with credit in CRW 3011. Literary genres; practice and critique of peer writing; critical reading of established authors. <i>Fall, Spring.</i>			Advanced Nonfiction Workshop: PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit. <i>Fall, Spring.</i>		
CPO 4123	COS-POLS	3(3,0)	CRW 3120	CAH-ENG	3(3,0)	CRW 4320	CAH-ENG	3(3,0)
Government and Politics of Great Britain: A survey of British government, society, politics and institutions, emphasizing parliamentary traditions. Britain's foreign policy and European role will be discussed. <i>Even Spring.</i>			Fiction Writing Workshop: PR: Junior standing, and C (2.0) or better required in ENC 1102 and (CRW 2100 or CRW 3013). An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory. <i>Fall, Spring.</i>			Advanced Poetry Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3310, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be used in the degree program a maximum of 2 times. <i>Fall, Spring.</i>		
CPO 4303	COS-POLS	3(3,0)	CRW 3211	CAH-ENG	3(3,0)	CRW 4616	CAH-ENG	3(3,0)
Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region. <i>Even Fall.</i>			Creative Nonfiction Writing: PR: English or English Ed major or C.I., and C (2.0) or better required in CRW 3013. Writers present original nonfiction writing for class response and individual conferences. Close reading of key works of creative nonfiction with discussion of definitions of the genre. <i>Fall, Spring.</i>			Advanced Scriptwriting Workshop: PR: CRW 3610. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. May be repeated for credit. <i>Occasional.</i>		
CPO 4445	COS-POLS	3(3,0)	CRW 3310	CAH-ENG	3(3,0)	CRW 4804	CAH-ENG	3(3,0)
Comparative Political Parties: PR: POS 2041, and Junior standing or C.I. Theories of the formation, structures, organization, and behavior of political parties and political party systems in comparative perspective. <i>Even Fall.</i>			Poetry Writing Workshop: PR: Grade of C (2.0) or better required in ENC 1102 and CRW 2300 or CRW 3013. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory. <i>Fall, Spring.</i>			Creative Writing in the Community: PR: Junior standing and CRW 3310 or CRW 3120 or CRW 3211. Teaching creative writing to community groups through service-learning. <i>Occasional.</i>		
CPO 4553	COS-POLS	3(3,0)				CRW 5020	CAH-ENG	3(3,0)
Politics of Japan: PR: POS 2041 or CPO 3103 or C.I. Evolution of the Japanese political system and how domestic and international politics influence the functioning of the Japanese economy. <i>Fall.</i>						Graduate Writing Workshop: PR: Admission to Creative Writing MFA and C.I. Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher. May be used in the degree program a maximum of 4 times. <i>Fall, Odd Spring.</i>		
CPO 4643	COS-POLS	3(3,0)						
Government and Politics of Russia: Study of the origins, institutions, and functioning of the Russian system, including the lingering influence of the old order on domestic and foreign policy. <i>Occasional.</i>								
CPO 4710	COS-POLS	3(3,0)						
Women in Comparative Politics: PR: Junior standing or C.I. A cross-national perspective on women and politics; how women behave politically in various political and economic contexts. <i>Occasional.</i>								

CRW 5130 CAH-ENG 3(3,0) Form and Theory in Creative Writing: PR: Admission to Creative Writing MFA or C.I. Formal and theoretical study of creative writing of given genre (poetry, short fiction, etc). May be repeated for credit only when course content is different. <i>Occasional.</i>	DAA 2201C CAH-THEA 2(2,1) Ballet II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Intermediate classical ballet technique, including principles, theory, and practice technique. <i>Spring.</i>	DAA 3612 CAH-THEA 3(3,0) Dance Improvisation/Composition I: PR: DAA 2100C, Theatre major, Dance minor, or department consent. Theory and practice of dance composition. <i>Spring.</i>
CRW 5948C CAH-ENG 3(2,1) Creative Writing Service Learning: PR: 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. <i>Occasional.</i>	DAA 2300 ED-TLP 2(2,0) Ballroom Dance: Instruction in selected ballroom dances (foxtrot, waltz, rumba, swing, samba, cha cha, tango, quickstep) focusing on dance and fitness aspects of ballroom dancing. Graded S/U. May be repeated for credit. <i>Fall, Spring.</i>	DAA 3645 CAH-THEA 2(0,VAR) Choreography Practicum: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C. Student practice in choreographing a concert dance work for public performance. May be used in the degree program a maximum of 5 times. <i>Spring.</i>
CWR 3201 ECS-CEE 3(3,0) Engineering Fluid Mechanics: PR: MAP 2302, CR: EGN 3321. Fundamentals of fluid mechanics with hydraulic applications: fluid properties, hydrostatics, dimensional analysis, energy, momentum, continuity, and steady flow. <i>Fall, Spring.</i>	DAA 2351 ED-TLP 2(2,0) Salsa & Latin Dance: Instruction in salsa and selected other Latin dances (meringue, bachata, cha cha) focusing on Latin dance and fitness aspects of ballroom dancing. Graded S/U. May be repeated for credit. <i>Fall, Spring.</i>	DAA 3684 CAH-THEA 1(0,10) Dance Performance: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Student performance in a concert dance work. Students must be registered in a dance technique class. May be repeated for credit. <i>Spring.</i> M&S fee: \$15.00
CWR 4101C ECS-CEE 3(2,2) Hydrology: PR: STA 3032; CWR 3201. Hydrological cycle, probabilistic forecasting, rainfall excess, meteorology, groundwater, storm-water runoff, flood routing and design applications. <i>Fall, Spring.</i> M&S fee: \$15.00	DAA 2393C CAH-THEA 2(2,1) World Dance: PR: Theatre major, Dance minor, or department consent. Theory and applied technique of world dance. Semester focus will be devoted to one form, such as African dance, Flamenco, Irish dance, Indian dance, or other. May be repeated for credit. <i>Occasional.</i>	DAE 3370 ED-TLP 3(1,2) Dance and Rhythmics: The development of skill proficiency and instructional strategies in rhythmics and dance techniques, and fundamental movement patterns for grades K-12. <i>Occasional.</i>
CWR 4203C ECS-CEE 3(2,2) Hydraulics: PR: CWR 3201 Continuation of CWR 3201 with emphasis on piping networks, pumps, and hydraulic systems. Laboratories with civil and environmental engineering applications. <i>Fall, Spring.</i> M&S fee: \$20.00	DAA 2520C CAH-THEA 2(2,1) Tap Dance I: PR: Theatre major, Dance minor, or department consent. Form, style, and technique in the basic fundamental movements of tap dance. <i>Fall.</i>	DAN 3134 CAH-THEA 3(3,0) Dance History I: PR: DAA 2200C or DAA 2520C or DAA 2570C or DAA 2393C, and Theatre major, Dance minor, or department consent. The roots, trends, and styles of dance from prehistory through the seventeenth century. <i>Fall.</i>
CWR 4812C ECS-CEE 3(2,2) Water Resources Design: PR: CWR 4101C; CWR 4203C. Project course for the design of storm water, potable and sewer transmission systems using local and state regulations. <i>Fall, Spring.</i> M&S fee: \$15.00	DAA 2521C CAH-THEA 2(2,1) Tap Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2520C. Intermediate exploration of form, style, and technique of tap dance. <i>Spring.</i>	DEP 2004 COS-PSYCH 3(3,0) Developmental Psychology: PR: PSY 2012. The effects of genetic, psychological, maturational, and social factors on behavior throughout the life cycle. <i>Fall, Spring.</i>
CWR 5125 ECS-CEE 3(3,0) Groundwater Hydrology: PR: CWR 4203C or equivalent. Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations. <i>Occasional.</i>	DAA 2540 CAH-THEA 3(2,2) Dance Technique I: PR: or CR:THE 2020 or THE 2020 or departmental consent. The study and application of fundamental dance techniques as they relate to musical theatre dance styles. <i>Occasional.</i>	DEP 2004H COS-PSYCH 3(3,0) Honors Developmental Psychology: PR: PSY 2012 and consent of Honors. Genetic, psychological, maturational, and social factors on behavior throughout the life cycle. With Honors content. <i>Fall.</i>
CWR 5205 ECS-CEE 3(3,0) Hydraulic Engineering: PR: CWR 4101C and CWR 4203C. Concepts of fluid mechanics and hydrodynamics applied to natural and man-made flow of intent to civil and environmental engineering. <i>Occasional.</i>	DAA 2570C CAH-THEA 2(2,1) Jazz Dance I: PR: DAA 2200C, and Theatre major, or Dance minor, or department consent. Basic movements of American Jazz dance, including practical class work and Jazz dance history. <i>Fall, Spring.</i>	DEP 3202 COS-PSYCH 3(3,0) Psychology of Exceptional Children: PR: PSY 2012. Psychological problems of exceptional children, including diagnosis, associated emotional problems, effects of institutionalization, special class placement, attitudes, and appropriate intervention methods. <i>Occasional.</i>
CWR 5515 ECS-CEE 3(3,0) Numerical Methods in Civil & Environmental Engineering: PR: CWR 4101C, CWR 4203C. This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications. <i>Occasional.</i>	DAA 2571C CAH-THEA 2(2,1) Jazz Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2570C. Intermediate Jazz dance using theory and practice in jazz technique. <i>Spring.</i>	DEP 3464 COS-PSYCH 3(3,0) Psychology of Aging: PR: PSY 2012. An examination of basic psychological processes related to the aging process, with emphasis on the applied implications of changes in perceptual-motor, social emotional and cognitive-intellectual functioning. <i>Occasional.</i>
CWR 5545 ECS-CEE 3(3,0) Water Resources Engineering: PR: CWR 4101C, CWR 4203C. Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques. <i>Occasional.</i>	DAA 2640 CAH-THEA 3(2,2) Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit. <i>Occasional.</i>	DEP 5057 COS-PSYCH 3(3,0) Developmental Psychology: PR: Graduate status or senior standing or C.I. Psychological aspects of development including intellectual, social, and personality factors. <i>Spring.</i>
DAA 2100C CAH-THEA 2(2,1) Modern Dance I: PR: Theatre major, Dance minor, or department consent. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures. <i>Spring.</i>	DAA 3108C CAH-THEA 2(2,1) Modern Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2101C. Advanced exploration of form, style, and technique in creative movement. May be repeated for credit. <i>Spring.</i>	DIG 2000 CAH-DIG 3(3,0) Introduction to Digital Media: CR: ENC 1101. The principles, development and prospects for Digital Media, with a focus on the Internet. Students learn to build Web pages as their principal expressive medium in the course. Extensive reading, Internet and library research, several short papers and a team project are required. This course serves as the gateway for the Digital Media program. <i>Occasional.</i>
DAA 2101C CAH-THEA 2(2,1) Modern Dance II: PR: Theatre major, Dance minor, or department consent., and C (2.0) or better required in DAA 2100C and DAA 2200C. Intermediate exploration of form, style, and technique in creative movement, including practical class work and history lectures. <i>Fall.</i>	DAA 3208C CAH-THEA 2(2,1) Ballet III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2201C. Advanced classical ballet technique, including principles, theory, and practice technique. May be repeated for credit. <i>Fall.</i>	DIG 3001 CAH-DIG 3(3,0) Digital Media Principles: PR: MAC 1105 or MGF 1106. Survey of principles and methods employed in multimedia production, including an examination of content creation tools. Focus on web page construction. <i>Fall, Spring.</i>
DAA 2200C CAH-THEA 2(2,1) Ballet I: PR: Theatre major, Dance minor, or department consent. Fundamentals of classical ballet; includes practical dance work as well as dance history lectures. <i>Fall.</i>	DAA 3524C CAH-THEA 2(2,1) Tap Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2521C. Advanced exploration of form, style, and technique of tap dance. May be repeated for credit. <i>Fall.</i>	

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<p>DIG 3035 CAH-DIG 1(1,0) Digital Media in the Workplace: PR: ENC 1102. Workplace skill preparation for Digital Media Practicum. Fosters lifelong learning strategies and digital portfolio development. May be used in the degree program a maximum of 4 times. <i>Fall, Spring.</i></p>	<p>DIG 3503 CAH-DIG 3(3,0) Rapid Application Web Development: PR: DIG 3001 and DIG 4921C. Integration of Core Internet technologies to produce usable interfaces and algorithms. May be repeated for credit 3 times. <i>Odd Fall.</i></p>	<p>DIG 4326C CAH-DIG 4(3,3) Geometrical Modeling Workshop: PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques and mechanics of designing and manipulating geometrical representations artificial characters and their environments; introduction to procedural models. <i>Odd Spring.</i></p>
<p>DIG 3134C CAH-DIG 3(3,0) Internet Software Design: PR: DIG 3001 and COP 2500C with a minimum grade of "B" (3.0) in DIG 3001. Fundamentals of software design in Internet environments. Introduction to discrete mathematics, programming/design schema, and computational structures. <i>Fall, Spring.</i></p>	<p>DIG 3523 CAH-DIG 3(3,0) The Production Process: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Production in a visual medium from narrative idea to finished artifact. <i>Odd Fall.</i></p>	<p>DIG 4359C CAH-DIG 4(3,3) Artificial Environments and Effects Workshop: PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of artificial environments, with emphasis on compositing, image processing, visual style, visual continuity. <i>Odd Spring.</i></p>
<p>DIG 3135C CAH-DIG 3(2,1) Digital Imagery: PR: DIG 3001 and COP 2500C with a minimum grade of "B" (3.0) in DIG 3001. Technical principles of digital photography and scanned image capture for use in video games, internet and interactive software. Project oriented. <i>Fall, Spring.</i></p>	<p>DIG 3525 CAH-DIG 3(3,0) Digital Media Production I: PR: DIG 2000, GRA 2101C and a minimum grade of "B" (3.0) or better in DIG 3001. Media project planning, organization and execution; group dynamics. Software tools for project planning, scheduling and management. <i>Fall, Spring.</i></p>	<p>DIG 4369C CAH-DIG 4(3,3) Artificial Characters Workshop: PR: DIG 3362 and successful portfolio review, or C.I. Techniques and mechanics of artificial characters, with emphasis on attitude in action, personality of character expressions, and bringing characters to life. <i>Odd Spring.</i></p>
<p>DIG 3153 CAH-DIG 3(3,0) Writing for Digital Media: PR: Minimum grade of "B" (3.0) in DIG 3001. Methodologies, fundamentals, and history of written communications for the digital age. Application of methods and fundamentals in the following areas: language theory, document design, markup languages and the editing process. <i>Fall, Spring.</i></p>	<p>DIG 3563 CAH-DIG 3(3,0) Information Management and Authorship: PR: DIG 3001. Information management relating to creation, storage, retrieval of assets and authoring of databases and file types. <i>Fall, Spring.</i></p>	<p>DIG 4451C CAH-DIG 4(3,3) Visual Storytelling and Visual Development Workshop: PR: DIG 3430 and successful portfolio review, or C.I. Techniques, mechanics of visual development with emphasis on strong visual designs which communicate effectively. <i>Odd Spring.</i></p>
<p>DIG 3253 CAH-DIG 3(3,0) Digital Media Audio: PR: Minimum grade of "B" (3.0) in DIG 3001. Audio production processes for multimedia and new media production, including examination and use of audio and MIDI sequencing software. <i>Fall, Spring.</i></p>	<p>DIG 3811 CAH-DIG 3(3,0) User-Centered Design: PR: B or better in DIG 3001. The creation of media software and other human-system products by applying knowledge about cognition and behavior. <i>Fall, Spring.</i></p>	<p>DIG 4455C CAH-DIG 3(3,0) Interactive Performance II: PR: DIG 3450C or CI. Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure. <i>Even Fall, Spring.</i></p>
<p>DIG 3286C CAH-DIG 3(1,2) Assembling Digital Media: PR: Minimum grade of "B" (3.0) in DIG 3001. Digital narratives, visual storytelling, and the assembly and editing of images and sounds for use in interactive media. Project oriented. <i>Fall, Spring.</i></p>	<p>DIG 3821 CAH-DIG 3(3,0) Creative Digital Problem Solving: PR: Minimum grade of "B" (3.0) in DIG 3001. Practical tools to enhance the creative process in the development of new, novel, and useful ideas for work and life. <i>Fall, Spring.</i></p>	<p>DIG 4486 CAH-DIG 3(3,0) Visual Language of Moving Image II: PR: DIG 3485. The "mechanics" of Visual Language, in areas of characters, environment and effects. Emphasis on the acting of artificial characters for the purposes of storytelling. <i>Occasional.</i></p>
<p>DIG 3355 CAH-DIG 3(3,0) Artificial Environments and Effects: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Design, manipulation to convey a story, thought, and concept in visual medium. New imagery in motion such as non-character entities, music videos, and scientific visualization. <i>Odd Fall.</i></p>	<p>DIG 3855 CAH-DIG 3(3,0) Converging Media: PR: FIL 3625 and DIG 3001: Film or Digital Media major with a minimum grade of "B" (3.0) in DIG 3001. Applying the convergence of story, play and game conventions into innovative Internet experiences. <i>Even Spring.</i></p>	<p>DIG 4522 CAH-DIG 3(3,0) Digital Media Service: PR: DIG 3035. Practicum in which students utilize their digital media skills to create media rich products. May be used in the degree program a maximum of 4 times. <i>Fall, Spring.</i></p>
<p>DIG 3362 CAH-DIG 3(3,0) Artificial Characters: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes, techniques for design and manipulation of artificial characters to convey story, thought, or concept in a visual medium. <i>Odd Fall.</i></p>	<p>DIG 4204 CAH-DIG 3(3,0) Generating and Manipulating Digital Imagery: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Core techniques for creating and manipulating second and third digital representations. <i>Fall.</i></p>	<p>DIG 4523L CAH-DIG 1(0,3) Digital Media Service III: PR: DIG 4522L and a minimum grade of "B" (3.0) or better in DIG 3001. Participation as a leader in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. <i>Even Fall, Spring.</i></p>
<p>DIG 3430 CAH-DIG 3(3,0) Visual Storytelling and Visual Development: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes and techniques to transform story concepts into a producible visual experience. <i>Odd Fall.</i></p>	<p>DIG 4206C CAH-DIG 4(3,3) New Imagery in Motion Workshop: PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of new approaches to visual communication, new narrative structures, new and emerging media. <i>Even Fall, Odd Spring.</i></p>	<p>DIG 4524L CAH-DIG 3(0,3) Digital Media Project I: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Multidisciplinary students work with faculty and industry mentors to design and implement a project involving virtual reality, video game production, computer animation, or interaction with the theme park industry. <i>Odd Fall, Even Spring.</i></p>
<p>DIG 3450C CAH-DIG 3(3,0) Interactive Performance I: PR: Admission by audition only. Digital Media, Theatre majors, or CI. Techniques of interactive acting, with emphasis on interpersonal awareness and audience facilitation. <i>Fall, Spring.</i></p>	<p>DIG 4323 CAH-DIG 3(3,0) Modeling for Visual Language: PR: DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Constructing organic 3D models for non-realtime applications, operating high performance CAD systems, and using higher-order modeling techniques. Introduction to rigging and animation controls, materials, lighting and rendering. <i>Occasional.</i></p>	<p>DIG 4526C CAH-DIG 3(2,2) Digital Media Production II: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I. <i>Fall, Even Spring.</i></p>
<p>DIG 3480C CAH-DIG 4(2,2) Computer as a Medium: PR: DIG 2000. Not for credit for those who have had ART 2300C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and illustrator software to draw from still life arrangements. <i>Occasional.</i></p>	<p>DIG 4324 CAH-DIG 3(3,0) Modeling for Realtime Systems II: PR: DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Advanced techniques for character animation, texture, lighting, rendering. Project oriented. <i>Fall, Even Spring.</i></p>	<p>DIG 4528 CAH-DIG 3(0,0) Digital Media Project II: PR: DIG 4524L and a minimum grade of "B" (3.0) or better in DIG 3001. Continuation of IDS 4682. <i>Odd Fall, Even Spring.</i></p>
<p>DIG 3485 CAH-DIG 3(3,0) Visual Language of the Moving Image: PR: DIG 3001 or FIL 1007, and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Digital Media, Film or Animation major. Conceptual structure and design of visual storytelling. Principles, mechanics, character development, personality of place, exaggeration and effects. <i>Fall, Spring.</i></p>	<p>DIG 4325C CAH-DIG 4(3,3) Look Modeling Workshop: PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques, mechanics of designing, developing finished look emphasis on rendering, shading, texturing, and lighting. <i>Even Fall, Odd Spring.</i></p>	<p>DIG 4630C CAH-DIG 3(1,2) Media for E-Commerce II: PR: DIG 3001 and DIG 4921C with a minimum grade of "B" (3.0) in DIG 3001. The applications of server-side internet programming languages and media theory to e-commerce, internet security, and online portals. Project oriented. <i>Fall, Spring.</i></p>

DIG 4640 CAH-DIG 3(3,0)
Autonomous Media: PR: DIG 3134C and a minimum grade of "B" (3.0) or better in DIG 3001. Applications of concepts derived from research on artificial intelligence, to media and the Internet. Project-based. *Occasional.*

DIG 4641 CAH-DIG 3(3,0)
Creative Digital Devices: PR: DIG 3134C and ART 2201C and a minimum grade of "B" (3.0) or better in DIG 3001. The physical construction and computer control of electro-mechanical devices, and the use of software libraries for controlling testbed hardware, for entertainment and creative applications. *Occasional.*

DIG 4645 ECS-CS 3(3,0)
Digital Media: PR: COP 3530C or C.I. Information structures, algorithms and interactive tools for creation, compression, storage, indexing and transmission of multimedia (visual images, sound, tactile displays, etc.) Project-oriented. *Occasional.*

DIG 4713C CAH-DIG 3(1,2)
Game Design: PR: DIG 3134C and a minimum grade of "B" (3.0) in DIG 3001. Principles and theories of video game design, including software, content, interaction, and game play design. Project based. *Fall, Spring.*

DIG 4715C CAH-DIG 3(1,2)
Game Production: PR: DIG 4713C or COP 3330 or DIG 4780, and DIG 3001 with a minimum grade of "B" (3.0) in DIG 3001. Principles and theories of video game production, including project planning, scripting, 3D modeling and texturing, level design, and audio. Project based. *Fall, Spring.*

DIG 4716L CAH-DIG 3(0,3)
Internet Interaction: PR: DIG 2000 or CGS 3175 and a minimum grade of "B" (3.0) or better in DIG 3001 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying esthetic and scientific principles of user interface design. Project oriented. *Fall, Spring.*

DIG 4770 ECS-CS 3(3,0)
Building Virtual Worlds: PR: COP 3530C or C.I. Design and construction of software for networked interactive learning environments, entertainment and communication systems. Tools for enabling dramatic, artistic and technical creativity. Project oriented. *Occasional.*

DIG 4780 CAH-DIG 3(3,0)
Modeling for Realtime Graphics: PR: DIG 4770, GRA 2101C or other computer graphics experience and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Principles of construction of 3D models for realtime applications; use of high performance CAD systems; level of detail management, efficiency vs. visual quality for video games and realtime simulation. *Odd Fall, Even Spring.*

DIG 4921C CAH-DIG 3(2,2)
Media for e-Commerce I: PR: DIG 2000 and (COP 2500C or COP 3502C) and a minimum grade of "B" (3.0) or better in DIG 3001. Media in support of electronic commerce on the Internet. Emphasis on the artistic and creative components supporting the business aspects of electronic commerce. Project oriented. *Odd Fall, Even Spring.*

DIG 4931 CAH-DIG 3(3,0)
Cultural Byways: PR: DIG 3525, DIG 3001. Development and implementation of historical and cultural video segments for digital media projects. *Occasional.*

DIG 5045C CAH-DIG 3(1,3)
Principles of Interactive Entertainment I: PR: Admission to Digital Media M.S. program or C.I. Interactive digital content creation technologies and development processes. *Fall.*

DIG 5046C CAH-DIG 3(1,3)
Principles of Interactive Entertainment II: PR: DIG 5045C or C.I. Advanced principles of interactive digital content creation technologies and development processes. *Fall.*

DIG 5136C CAH-DIG 3(1,3)
Design for Media: PR: Graduate standing and C.I. Theories and practices of interactive design for digital media content. *Fall.*

DIG 5366 CAH-DIG 3(3,0)
Creating Interactive Characters: PR: Admission to Digital Media M.S. or C.I. Survey of issues related to creating interactive characters. Topics will range from modeling humans to reviewing realistic human capabilities. Graded S/U. *Fall, Spring.*

DIG 5529C CAH-DIG 3(1,3)
Production for Media: PR: Admission to Digital Media M.S. program or C.I. Theories and practices of production processes for interactive entertainment. *Fall.*

DIG 5548C CAH-DIG 3(1,3)
Rapid Prototype Production I: PR: Admission to Digital Media M.S. or C.I. Students engage in interdisciplinary teams to create rapid development projects. *Fall.*

DIG 5549C CAH-DIG 3(1,3)
Rapid Prototype Production II: PR: DIG 5548C or C.I. Students engage in interdisciplinary teams to create advanced rapid development projects. *Fall.*

DIG 5550C CAH-DIG 3(1,3)
Digital Media Development: PR: DIG 5136C or C.I. Students will begin developing projects specified by design documents from Design for Media course. *Odd Fall.*

DIG 5551C CAH-DIG 3(1,3)
Interactive Media Design: PR: DIG 4716L and DIG 3286C or equivalent, or C.I. Interdisciplinary approach to design and construction of advanced interactive media, applying theory, aesthetic, and scientific principles of user interaction. Project and theory-based. *Even Spring.*

DIG 5565C CAH-DIG 3(1,3)
Digital Asset Management Systems: PR: 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.*

DIG 5627 CAH-DIG 3(3,0)
Autonomous Characters: PR: Graduate status or senior standing or C.I. Interdisciplinary study of autonomous characters-computer programs that mimic human behavior-in games, simulations and interactive literature. Formal models of strategy, tactics and actions. *Occasional.*

DIG 5647C CAH-DIG 3(1,2)
Science & Technology of Dynamic Media: PR: Graduate status or C.I. Contemporary media theory and survey of scientific principles behind digital media production, synthesis, and evaluation. *Fall.*

DIG 5810 CAH-DIG 3(3,0)
Ways of Seeing: Cultural and Technological Perspectives: PR: Admission to Film and Digital Media masters program or C.I. Cultural and technological perspectives formed by the intersection of media and cultural studies, art history and criticism, and cinema studies. *Fall.*

DIG 5835 CAH-DIG 3(3,0)
Digital Forensics: PR: CGS 5131 (Computer Forensics I) or C.I. Application of digital scientific techniques to solve information assurance, forensic and legal problems. *Occasional.*

DIG 5950 CAH-DIG 3(3,0)
Interactive Entertainment Capstone: PR: Admission to Digital Media M.S. Prepare a product design document and technical design document for a production project. Graded S/U. *Fall, Spring.*

DSC 4013 HPA-CJ/LS 3(3,0)
Homeland Security and Criminal Justice: PR: CCJ 3014 and CCJ 3024 or C.I. Analysis of homeland safety and security in contemporary society and government. *Occasional.*

EAB 3703 COS-PSYCH 4(3,2)
Principles of Behavior Modification: PR: EXP 3404. An examination of the control of behavior through applications of principles and theories of learning. Examples are drawn from clinical and social psychology and from child rearing. Lecture/Practicum. *Fall.*

EAB 3705C COS-PSYCH 4(3,2)
Behavior Modification - Part II: PR: EAB 3703, EXP 3404. Continued examination of the principles of behavior analysis and their application, as well as ethical issues related to the delivery of behavior analysis programs. *Occasional.*

EAB 5765 COS-PSYCH 3(3,0)
Applied Behavior Analysis with Children and Youth: PR: DEP 5057 and EXP 5445, and graduate status or senior standing or C.I. Advanced survey of principles, procedures, and techniques of applied behavior analysis, with special attention to applications with children and youth. *Occasional.*

EAS 3010 ECS-MMAE 3(3,0)
Fundamentals of Aerospace Flight: PR: EGN 3321 and a "C" (2.0) or better in all of the following prerequisites: MAC 2311, MAC 2312 and PHY 2048; CR: EGN 3343. Fundamental theories of inviscid, incompressible aerodynamics and flight mechanics, airflow theory, external and internal flows, airplane performance. *Fall.*

EAS 3101 ECS-MMAE 3(3,0)
Fundamentals of Aerodynamics: PR: EAS 3010. Viscous, incompressible fluid flow; flow over finite wings; aerodynamic design; introduction to computational fluid dynamics. *Spring.*

EAS 3530 ECS-MMAE 3(3,0)
Space Systems Concepts: PR: EAS 3010, PHY 2049, and MAP 2302. Physical and engineering aspects of current space flights. Space nuclear propulsion and power. Design of spacecraft for space environment. Communication with spacecraft. Space-borne instrumentation. *Spring.*

EAS 3800C ECS-MMAE 3(2,3)
Aerospace Engineering Measurements: PR: EGN 3343, CR: EGM 3601. Theory, calibration and use of instruments. Measurement techniques, data analysis, report writing. Laboratory topics related to aerospace engineering. *Fall.* M&S fee: \$15.00

EAS 3810C ECS-MMAE 2(1,3)
Design of Aerospace Experiments: PR: EAS 3800C and EAS 3010. Extension of EAS 3800C. Design of experiments in aeronautic/aerospace systems with emphasis on project team activity. *Spring.* M&S fee: \$45.00

EAS 4105 ECS-MMAE 3(3,0)
Flight Mechanics: PR: EAS 3101 and CR: EML 4312C. Analysis and design of aircraft performance, static and dynamic stability and automatic control systems. *Fall.*

EAS 4134 ECS-MMAE 3(3,0)
High-Speed Aerodynamics: PR: EGN 3343, EML 3701, EAS 3800C. Continuation of EAS 3101. Normal and oblique shock waves, nozzles and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies. Viscous boundary layers and applications to the design process. *Fall.*

EAS 4200 ECS-MMAE 3(3,0)
Flight Structures: PR: EGN 1006C, EGN 1007C, EGM 3601. Fundamental structural and dynamic design of aircraft and space vehicle components. Classical and finite element methods. *Fall.*

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EAS 4210 Space Structural Dynamics: PR: EGN 3321, EGM 3601 and EML 3034C. Analytical mechanics and linear system theory. Modern approach to control of lumped parameter systems. Review of space structure applications. Use of finite element methods. <i>Spring</i> .	ECS-MMAE 3(3,0)	EAS 5535 Engineering Design for Aerospace Vehicles: PR: 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. <i>Occasional</i> .	ECS-MMAE 3(3,0)	ECO 3401 Quantitative Business Tools I: PR: ECO 2023, MAC 1105. Introduction to mathematical and statistical analysis of economics and business problems. <i>Fall, Spring</i> .	BA-ECON 3(3,0)
EAS 4300 Aerothermodynamics of Propulsion Systems: PR: EAS 4134 or EML 4703. Fundamental analysis and design considerations of propulsion systems. Turbojets, ramjets and rockets. <i>Spring</i> .	ECS-MMAE 3(3,0)	ECM 4504C Embedded Computer Systems: PR: EEL 4768C, EEL 4851C, EEL 4635C. Computer Applications in Systems role, sensor and actuator interfacing. Design projects, including problem statements and specifications, design methodology, implementation, testing, and documentation. <i>Occasional</i> . M&S fee: \$12.00	ECS-ECE 4(3,3)	ECO 3401H Honors: Quantitative Business Tools I: PR: Economics major or minor, ECO 2023, MAC 1105, permission of honors. Same as ECO 3401 with Honors level content. <i>Occasional</i> .	BA-ECON 3(3,0)
EAS 4400 Spacecraft Attitude Dynamics: PR: EML 4312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters. <i>Occasional</i> .	ECS-MMAE 3(3,0)	ECM 5135 Engineering Math Analysis I: PR: MAP 2302. Topics in advanced engineering mathematics, including systems of differential equations, phase plane, linear algebra, and vector differential calculus. <i>Occasional</i> .	ECS-ECE 3(3,0)	ECO 3410 Mathematical Economics: PR: ECO 3401 or MAC 2233. Mathematical methods with particular focus on microeconomics foundations of individual decision-making. <i>Even Spring</i> .	BA-ECON 3(3,0)
EAS 4404C Discrete Control in Aerospace Vehicles: PR: EML 4312C and EAS 3800C. Discrete control aspects of aerospace vehicles, digital controller, design, state-space representation, Z-transform, system response. <i>Spring</i> . M&S fee: \$15.00	ECS-MMAE 3(2,3)	ECM 5741C Microcomputer-based Monitoring and Control Systems: PR: EEL 3342C; EEL 4767C or C.I. Machine language programming; software development aids; systems design; interfacing considerations. <i>Occasional</i> .	ECS-ECE 3(2,3)	ECO 3411 Quantitative Business Tools II: PR: Junior standing and business major or minor, ECO 2013, ECO 2023, and QMB 3201. The use of statistical methods as scientific tools in the analysis of economics and business problems. <i>Fall, Spring</i> .	BA-ECON 4(4,0)
EAS 4505 Orbital Mechanics: PR: EGN 3321 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2048. Two-body problem, orbital equations, orbital transfer, earth satellite operation. <i>Spring</i> .	ECS-MMAE 3(3,0)	ECO 2013 Principles of Macroeconomics: An introduction to macroeconomics, including an overview of the market economy; national income, employment, and price level determination, stabilization policies, and international economics. <i>Fall, Spring</i> .	BA-ECON 3(3,0)	ECO 3411H Honors: Quantitative Business Tools II: PR: ECO 3401, permission of honors. Same as ECO 3411 with Honors level content. <i>Occasional</i> .	BA-ECON 3(3,0)
EAS 4700C Aerospace Design I: PR: EAS 3810C, CR: EML 4312C. Application of the design process to the team solution of a state-of-the-art problem. Airplanes and space vehicles, systems and devices are considered. <i>Fall, Spring</i> . M&S fee: \$15.00	ECS-MMAE 3(1,6)	ECO 2013H Honors Principles of Economics Macroeconomics: PR: Permission of Honors. Same as ECO 2013 with honors-level content. <i>Fall, Spring</i> .	BA-ECON 3(3,0)	ECO 3703 International Trade: PR: ECO 2013 and ECO 2023. Fundamental principles of international trade and foreign exchange, including the balance of payments and problems of foreign economic policy. <i>Fall</i> .	BA-ECON 3(3,0)
EAS 4710C Aerospace Design II: PR: EAS 4700C. Continuation of the design process in the team building and testing of a prototype/model of an airplane, spacecraft, system or device. <i>Fall, Spring</i> . M&S fee: \$45.00	ECS-MMAE 3(1,6)	ECO 2023 Principles of Microeconomics: The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. <i>Fall, Spring</i> .	BA-ECON 3(3,0)	ECO 3704 International Commercial Policy: PR: ECO 2013 and ECO 2023. Presents the fundamentals of international commercial policy, with special emphasis on U.S. trade policy since WW II. <i>Spring</i> .	BA-ECON 3(3,0)
EAS 5123 Intermediate Aerodynamics: PR: EAS 4134; CR: EML 5060. Aerodynamic characteristics of airfoils, finite wings, waves, wing-body combinations, viscous flow and flow instabilities. Airfoil design. <i>Occasional</i> .	ECS-MMAE 3(3,0)	ECO 2023H Honors Principles of Microeconomics: PR: Permission of Honors. The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Honors content. <i>Occasional</i> .	BA-ECON 3(3,0)	ECO 4303 History of Economic Thought: PR: ECO 2013 and ECO 2023. A study of the principal ideas of the major contributors to the development of economic thought. <i>Occasional</i> .	BA-ECON 3(3,0)
EAS 5157 V/Stol Aerodynamics and Performance: PR: EAS 4105; CR: EML 5060. Momentum theory, blade element theory, hover and forward flight, stability, aeroelasticity. <i>Occasional</i> .	ECS-MMAE 3(3,0)	ECO 3070 Tutoring/Teaching Techniques for Undergraduate Economics: PR: Satisfactory completion of same course the student is tutoring. Prepare undergraduate students to more effectively learn economics concepts through tutoring/teaching. Graded S/U. May be used in the degree program a maximum of 4 times. <i>Fall, Spring</i> .	BA-ECON 1(1,0)	ECO 4412 Econometrics: PR: ECO 2013, ECO 2023 and ECO 3411. Concepts and methods of developing, analyzing, and interpreting measures of economic activity, and business and economic change. <i>Even Fall</i> .	BA-ECON 3(3,0)
EAS 5302 Direct Energy Conversion: PR: 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. <i>Occasional</i> .	ECS-MMAE 3(3,0)	ECO 3101 Intermediate Microeconomics: PR: ECO 2013, ECO 2023 and QMB 3201. Theoretical study of the behavior of households, firms, and the markets in which they operate with issues and applications. <i>Fall, Spring</i> .	BA-ECON 3(3,0)	ECO 4451 Research Methods in Economics: PR: ECO 3101, ECO 3203 and ECO 3411. Skills in data collection and creation, data analysis, and research presentation. <i>Fall, Spring</i> .	BA-ECON 3(3,0)
EAS 5315 Rocket Propulsion: PR: EAS 4134 or EML 4703. Analysis and performance of rocket motors; selection and thermochemistry of chemical propellants; liquid and solid propellant rockets. <i>Occasional</i> .	ECS-MMAE 3(3,0)	ECO 3203 Intermediate Macroeconomics: PR: ECO 2013 and ECO 2023 and QMB 3201. Measurement, analysis, and control of aggregate economic activity. <i>Fall, Spring</i> .	BA-ECON 3(3,0)	ECO 4504 Public Economics: PR: ECO 2023. A study of fiscal institutions and decision-making, and how government budgetary policy (spending, taxing, borrowing, and debt management) affects the economy and its citizens. <i>Occasional</i> .	BA-ECON 3(3,0)
EAS 5407 Mechatronic Systems: PR: EML 4804C or EAS 4404C. Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications. <i>Odd Spring</i> .	ECS-MMAE 3(3,0)	ECO 3223 Money and Banking: PR: ECO 2013. Nature of money, commercial banking system, and monetary theory, and their relationship to the level of economic activity and activities of the Federal Reserve and U.S. Treasury. <i>Odd Spring</i> .	BA-ECON 3(3,0)	ECO 4701 Seminar in Global Economic Policy: PR: ECO 2013 and ECO 2023. Interdependent nature of the global economy, its current economic problems and the different policy perspectives and their impact. <i>Occasional</i> .	BA-ECON 3(3,0)
				ECO 4704 International Macroeconomics: PR: ECO 2013 and ECO 2023. International macroeconomics with review and analysis of current international macroeconomics, financial issues, policies and events. <i>Occasional</i> .	BA-ECON 3(3,0)
				ECO 4751 Law and Economics: PR: ECO 2013 and 2023. Impact of law on economic behavior; how economic behavior changes with legal rules and penalties; and the economic logic underlying the law. <i>Occasional</i> .	BA-ECON 3(3,0)

ECO 4941	BA-ECON	3(3,0)	ECS 4303	BA-ECON	3(3,0)	EDF 3303	ED-ES	3(3,0)
Economics Internship: PR: Consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U. <i>Occasional.</i>			Economics of European Integration: PR: ECO 2013 and ECO 2023. Presents the development of the European Community, with emphasis on the characteristics of the Single European Act (EC '92). <i>Occasional.</i>			Learning Environments and Guidance for Young Children: PR: All courses in Block I. CR: All courses in Block II. Developmentally appropriate education materials, strategies, environments, and guidance for young children. Exploration of active learning and the development of young children's self-esteem and self-regulation. <i>Even Spring.</i>		
ECO 5005	BA-ECON	3(3,0)	ECS 4442H	BA-ECON	3(3,0)	EDF 3601	ED-ES	3(3,0)
Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis. <i>Occasional.</i>			Honors Economic Development of Mexico and Central America: PR: Permission of Honors and ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA. <i>Occasional.</i>			Professional Ethics in Education: Pedagogical knowledge, awareness of educational process and the analytical skills necessary for responsible public involvement in educational policy making. <i>Fall, Spring.</i>		
ECO 5006	BA-ECON	1.5(1.5,0)	EDE 3942	ED-TLP	3(3,0)	EDF 3740	ED-ES	3(3,0)
Economic Foundations: PR: Acceptance to Graduate Study. Introduction to Micro and Macro Economic Analysis. <i>Fall, Spring.</i>			Internship I: PR: EDG 4323, RED 3012, MAE 2801, TSL 4080. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U. <i>Fall, Spring.</i>			Foundations of Early Childhood Education: PR: Admission to the program. Overview of Early Childhood Education and services for young children and families. Includes historical, philosophical, and sociological perspectives; learning theories as related to early childhood. <i>Occasional.</i>		
ECO 5414	BA-ECON	1.5(1.5,0)	EDE 4943	ED-TLP	7-12(0,35)	EDF 4214	ED-ES	3(3,0)
Statistical Foundations: PR: Acceptance to Graduate Study. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference. <i>Fall, Spring.</i>			Internship II (Elementary): PR: EDE 3942. Student teaching in an elementary school under the supervision of a certified classroom teacher. Scheduled concurrent seminars. Graded S/U. <i>Occasional.</i>			Classroom Learning Principles: PR: EDF 2005 and Junior standing or C.I. Principles of learning as applied to classroom teaching situations, with emphasis on student development, behavior, self-concept and motivation. <i>Fall, Spring.</i>		
ECP 3004	BA-ECON	3(3,0)	EDE 4945	ED-TLP	1(1,0)	EDF 4282	ED-ERTL	3(3,0)
Seminar on Current Economic Topics: PR: ECO 2013 and ECO 2023. Current economic problems and issues. Emphasis on the social and ethical aspects of economic policy and the interrelatedness of economic and non-economic activities. <i>Occasional.</i>			Internship II Seminar: PR: All required program courses; CR: EDE 4943 Internship II. Culminating seminar emphasizing current classroom management and assessment issues as they relate to teaching in the elementary grades. <i>Fall, Spring.</i>			Applications of Technology in Education: Classroom applications of instructional media, including computers. Includes experiences with equipment, commercial and teacher-made media, and their uses. <i>Occasional.</i>		
ECP 3203	BA-ECON	3(3,0)	EDF 1075	ED-ES	3(3,0)	EDF 4466	ED-ERTL	3(3,0)
Labor Economics: PR: ECO 2013 and ECO 2023. The analysis of labor problems and issues in a dynamic contemporary economy through the interaction of the four major institutions: households, firms, government, and unions. <i>Occasional.</i>			Introduction to Educational Internship: Introduction to educational internship with selected partnership institutions. <i>Occasional.</i>			Classroom Assessment & Evaluation Techniques: PR: Completion of Internship I or C.I. Classroom measurement skills in designing traditional and alternative assessments, using results for student evaluation and instructor performance, and interpretation of standardized test results. <i>Fall, Spring.</i>		
ECP 3302	BA-ECON	3(3,0)	EDF 2005	ED-ES	3(3,0)	EDF 4467	ED-ES	3(3,0)
Economics and the Environment: PR: Sophomore standing, and ECO 2013 or ECO 2023. Analysis of environmental problems from an economic perspective, its relationship to other disciplines, and the the international dimension of environmental policy. <i>Even Fall.</i>			Introduction to Education: A survey course including an orientation to education careers, ethics, and the historical, philosophical and sociological foundations of education. This course has a field component. <i>Fall, Spring.</i>			Learning Theory and Assessment: PR: EDF 2005, EDG 2701, EME 2040, or C.I. Application of learning theory and assessment principles to classroom teaching situations. <i>Fall, Spring.</i>		
ECP 4302	BA-ECON	3(3,0)	EDF 2007	ED-ES	3(3,0)	EDF 4603	ED-ES	3(3,0)
Environmental and Natural Resource Economics: PR: ECO 2013 and ECO 2023 or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the micro-economic and macroeconomic level. <i>Odd Fall.</i>			Introduction to Substitute Teaching: Social and legal factors related to PK-12 teaching, including school safety, ethics, legal aspects, and roles and responsibilities of substitute teachers. <i>Fall, Spring.</i>			Analysis and Application of Ethical, Legal, and Safety Issues in Schools: PR: EDF 2005, EDG 2701, EME 2040 or C.I. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact schooling in a democracy. <i>Fall, Spring.</i>		
ECP 4403	BA-ECON	3(3,0)	EDF 2130	ED-ES	3(3,0)	EDF 5245	ED-ES	3(3,0)
Industrial Organization and Game Theory: PR: ECO 2013 and ECO 2023. A study of the performance of industries representative of various types of market structure and practices, as well as the public policies affecting these industries. <i>Even Spring.</i>			Child and Adolescent Development for Educators: Critical examination of developmental stages and characteristics of individuals from infancy through adolescence with application to learners in educational settings. <i>Fall, Spring.</i>			Preparation and Management of Classroom Instruction: PR: C.I. Study of strategies for instructional planning and classroom management that result in optimum learning. <i>Occasional.</i>		
ECP 4703	BA-ECON	3(3,0)	EDF 2250	ED-ES	3(3,0)	EDF 5607	ED-ES	3(3,0)
Managerial Economics: PR: Junior standing, ACG 2071, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation. Open for non-majors ONLY. <i>Spring.</i>			Classroom Management for Substitute Teachers: Instructional and classroom management strategies to optimize student learning and maximize the effectiveness of substitute teachers. <i>Fall, Spring.</i>			Language, Culture and Pedagogy: Impact and Implications: PR: 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. <i>Occasional.</i>		
ECS 4013	BA-ECON	3(3,0)	EDF 2283	ED-ES	3(3,0)	EDG 1005C	ED-ES	2(1,1)
Economics of Developing Areas: PR: ECO 2013 and ECO 2023. The study of problems, theories, and issues of economic development with reference to the third world. <i>Spring.</i>			Introduction to Applications of Technology in Education: Classroom applications of instructional media including computers. <i>Occasional.</i>			Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Education providing a foundation of leadership, scholarship, and service regarding disciplines in the college. <i>Fall, Spring.</i>		
ECS 4204	BA-ECON	3(3,0)	EDF 2720	ED-ES	3(3,0)	EDG 2311	ED-ES	3(3,0)
The Economies of the Pacific Rim: PR: ECO 2013 and ECO 2023. A study of the 'Asian Economic Miracle' examining the relationship between public policies, human resource development, and rapid shared growth. <i>Occasional.</i>			Children in Schools: Legal, Ethical and Safety Concerns: PR: EDF 2005, EDG 2701, EME 2040, or C.I. The role of education in children's lives through the analysis of legal, ethical and safety concerns. <i>Fall, Spring.</i>			Teaching Strategies for Substitute Teachers: Planning, adapting and implementing effective instructional practices and assessing student performance in K-12 settings with diverse populations. <i>Fall, Spring.</i>		
ECS 4210	BA-ECON	3(3,0)	EDF 3120	ED-ES	3(3,0)			
The Chinese Economy: PR: ECO 2013, ECO 2023. Economic overview of contemporary China, and review of key issues facing the country. <i>Occasional.</i>			Observing Child Growth and Development: PR: Admission to the program. Provides a comprehensive introduction to the principles and basic theories of child growth and development from pre-natal development through age eight. <i>Fall, Odd Spring.</i>					

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<p>EDG 2701 ED-ES 3(3,0) Teaching Diverse Populations: An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience. <i>Fall, Spring.</i></p>	<p>EEC 3700 ED-CFCS 3(3,0) Social and Emotional Development of Young Children: Provides an in-depth understanding of the social and emotional development of the young child. Examines the implication for curriculum development. <i>Occasional.</i></p>	<p>EEC 4943 ED-CFCS 12(0,12) Student Teaching: Provides opportunities for student teachers to use the knowledge and skills they acquired in a supervised public school setting. Graded S/U. <i>Occasional.</i></p>
<p>EDG 4323 ED-ES 3(3,0) Professional Teaching Practices: PR: EDF 2005 or C.I. Analysis of teaching strategies for K-12 settings, including higher order thinking, classroom management, alternative assessment and adaption of instruction for diverse student populations. <i>Fall, Spring.</i></p>	<p>EEC 3940 ED-CFCS 3(0,3) Integration Internship I: PR: Senior Status; RED 4311 or RED 3310. Field based placement in which the students will have supervised practice integrating course content areas. <i>Occasional.</i></p>	<p>EEC 5205 ED-CFCS 3(3,0) Programs and Trends in Early Childhood Education: PR: 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. <i>Occasional.</i></p>
<p>EDG 4410 ED-ES 3(3,0) Teaching Strategies and Classroom Management: PR: EDF 2005, EDG 2701, EME 2040, or C.I. Instructional, organizational and classroom management strategies to create effective learning environments. <i>Fall, Spring.</i></p>	<p>EEC 4207 ED-CFCS 3(3,0) Assessment and Evaluation of Young Children: PR: Admission to the Early Childhood Program and EEC 3700. Early childhood education and services for young children and families. Includes early childhood historical, philosophical, and sociological perspectives, learning theories and field-based experiences. <i>Fall.</i></p>	<p>EEC 5206 ED-CFCS 3(3,0) Organization of Instruction in Early Childhood Education: PR: Regular Certificate or C.I. Organization in instruction relating to language arts, social sciences, mathematics, health and physical education, problems relating to reading readiness and cognition (K-3). Concurrent laboratory experiences. <i>Spring.</i></p>
<p>EDG 4941 ED-ES 1-8(0,1-8) Directed Field Experience: PR: Approval of Professional Laboratory. Field experience in an appropriate educational setting under the direction of a supervising teacher and/or university supervisor. <i>Occasional.</i></p>	<p>EEC 4266 ED-CFCS 3(3,0) Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers. <i>Occasional.</i></p>	<p>EEC 5208 ED-CFCS 3(3,0) Creative Activities in Early Childhood: PR: Regular Certificate or C.I. Organization of instruction and methods for creative activities involving music, art, literature and educational toys, integration of activities, and basic skills curriculum (K-3). Concurrent laboratory experience. <i>Even Fall.</i></p>
<p>EDG 4948 ED-ES 3(3,0) Service Learning: PR: PSY 2012 or C.I. Involvement with community agencies and/or schools to gain a new perspective about the central Florida community. May be repeated for credit. <i>Fall, Spring.</i></p>	<p>EEC 4268 ED-CFCS 3(3,0) Curriculum Activities in Early Childhood: PR: Admission to Early Childhood Education Program. An integrated approach to curriculum planning and scheduling including materials, strategies, and environments for young children which emphasize active learning. <i>Fall, Spring.</i></p>	<p>EED 3250 ED-CFCS 3(3,0) Behavioral Issues of the Emotionally Handicapped: An introduction to functional schema of the field to include behavior management techniques, theories, legal considerations, counseling skills, etiology, prevention and utilization of community services. <i>Occasional.</i></p>
<p>EDG 5745 ED-TLP 3(3,0) Teaching the Non-English Student: PR: C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language. <i>Occasional.</i></p>	<p>EEC 4303 ED-CFCS 3(3,0) Planning Creative Activities in Early Childhood Education: PR: Admission into Early Childhood Education Program (PreK-3rd certification). Organization of instruction and methods for creative activities in a basic skills integrated PreK-3rd curriculum involving dance, music, theatre, visual arts, digital photography, literature and gaming. <i>Fall, Spring.</i></p>	<p>EED 4011 ED-CFCS 4(4,0) Introduction to the Emotionally Disturbed: PR: Senior standing. Development and practice of appropriate cognitive, affective, and motor strategies for selected categories, levels, and degrees of severity of exceptional population. <i>Occasional.</i></p>
<p>EDG 5941 ED-ES 2-8(0,11) Clinical Practice: PR: Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher. <i>Occasional.</i></p>	<p>EEC 4402 ED-CFCS 3(3,0) Cultural and Family Systems: Explores the institution of family in its cultural context as a living dynamic system. <i>Occasional.</i></p>	<p>EED 4210 ED-CFCS 3(3,0) Curriculum and Program Adaptation, E.H.: Development of highly specialized curriculum and identification, evaluation, modification, and use of curriculum materials and programs for students with emotional handicaps. <i>Occasional.</i></p>
<p>EDH 5306 ECS-MMAE 1(1,0) Teaching Methods in Engineering: PR: graduate standing in an engineering discipline. This course will cover basis teaching pedagogy to help engineering students becomes better TA's and help students deliver better technical presentations. <i>Occasional.</i></p>	<p>EEC 4524 ED-CFCS 3(3,0) Organization and Management in Early Childhood: Provides students with managerial and supervisory skills required to administer a developmentally appropriate early childhood program. <i>Occasional.</i></p>	<p>EED 4243 ED-CFCS 3(3,0) Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation and evaluation of the IEP, modification of regular education instructional practices, crisis intervention and prevention. <i>Occasional.</i></p>
<p>EDS 5356 ED-ERTL 3(2,1) Supervision of Professional Laboratory Experiences: PR: C.I. Study of the undergraduate professional laboratory experiences program, with emphasis on the role and responsibilities of the Teacher Education Associate or Supervising Teacher. <i>Occasional.</i></p>	<p>EEC 4528 ED-CFCS 3(3,0) Infant/Toddler Care and Education: Provides the knowledge and skills that will enable the student to become a competent worker with very young children and their families. <i>Occasional.</i></p>	<p>EED 4244 ED-CFCS 2(2,0) Instructional Strategies and Curriculum for Students with Emotional Handicaps: PR: EEX 2010. Instructional strategies and specialized curriculum for teaching students with emotional handicaps with emphasis on instructional techniques and use of curriculum materials and programs. <i>Occasional.</i></p>
<p>EEC 2001 ED-CFCS 3(3,0) Introduction to Early Childhood Education: An overview of early childhood education and services for young children and their families. Includes historical roots, societal changes, program differentiation and future trends. <i>Occasional.</i></p>	<p>EEC 4604 ED-CFCS 3(3,0) Classroom Management and Guidance of Young Children: PR: Admission into Early Childhood Education Program and EEC 3700. Techniques to guide behavior of young children, emphasizing classroom management and pro-social skills. <i>Spring.</i></p>	<p>EEL 3004 ECS-ECE 3(3,0) Electrical Networks: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049, CR: MAP 2302 (To enroll in this course, a C or better with a cumulative GPA of 2.7 or better for the above courses is required). Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform. <i>Fall, Spring.</i> M&S fee: \$15.00</p>
<p>EEC 3214 ED-ES 3(3,0) Early Childhood Education Learning Environment & Strategies: PR: Admission to the program. Examines developmentally appropriate education materials, strategies, and environments for young children. Explores an integrated approach to curriculum planning and scheduling which emphasizes active learning. <i>Occasional.</i></p>	<p>EEC 4731 ED-CFCS 3(3,0) Health, Safety, and Nutrition for Young Children: Health and safety issues in early childhood (0-8). Protection from injury and infection; promotion of healthy development, good nutrition, and appropriate health and fitness habits. <i>Spring.</i></p>	<p>EEL 3041 ECS-ECE 3(3,0) Circuit Analysis: PR: PHY 2053C. Study of electrical networks. Circuit analysis techniques are presented, including DC and steady state analysis. Power calculations, power distribution and dissipation are covered with examples relating to cables, connections, and buses. Not open to EE and CpE majors. <i>Fall, Spring.</i></p>
<p>EEC 3613 ED-CFCS 3(3,0) Observation and Assessment of Young Children: PR: Admission to the program. Appropriate methods for diagnosing, assessing, and evaluating young children, including children with diverse cultural and ethnic backgrounds. Appropriate interventions, remediations, and enrichment. <i>Occasional.</i></p>	<p>EEC 4936 ED-CFCS 2(2,0) Seminar in Early Childhood: Current trends, issues and advocacy in field of early childhood education. Includes guidance and clarification concerning student teaching. <i>Occasional.</i></p>	

EEL 3123C ECS-ECE 4(3,1) Networks and Systems: PR: EEL 3004. Network functions, Laplace transforms, frequency domain analysis using Fourier series and transforms, sampling theory and z-transforms. <i>Fall, Spring.</i> M&S fee: \$15.00	EEL 4309C ECS-ECE 4(3,3) Electronics II: PR: EEL 3307C, EEL 3342C. Ideal Op-Amps and applications. Introduction to Logic Circuits; Bipolar, MOS and CMOS families; Flip-flops and memory cells, comparators and timing circuits; A/D and D/A converters. <i>Fall, Spring.</i> M&S fee: \$15.00	EEL 4768C ECS-ECE 4(3,3) Computer System Design II: PR: EEL 4767C and EEL 4851C. Continuation of EEL 4767C. Control and datapath design using a hardware description language, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC. <i>Fall, Spring.</i> M&S fee: \$30.00
EEL 3306 ECS-ECE 3(3,0) Semiconductor Devices I: PR: EEL 3004. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models. <i>Fall, Spring.</i>	EEL 4314 ECS-ECE 3(3,0) Device Electronics for Integrated Circuits: PR: EEL 3306. P.N. Junctions, Bipolar Transistor Analysis, Metal Semiconductor contacts, MOS Systems MOSFET Analysis and Limitations. <i>Occasional.</i>	EEL 4781 ECS-ECE 3(3,0) Computer Communication Networks: PR: EEL 4767C and STA 3032. Network models. Media access protocols. Data link control. Routing and flow control. Internetworking. Current architectures and protocols: OSI, ethernet, token ring, FDDI, HSLC, X.25, etc. <i>Fall, Spring.</i>
EEL 3307C ECS-ECE 4(3,3) Electronics I: PR: EEL 3123C, EEL 3306. Electronic devices, analog electronic circuits, amplifier analysis and design., and frequency effects. <i>Fall, Spring.</i> M&S fee: \$15.00	EEL 4436C ECS-ECE 4(3,3) Microwave Engineering: PR: EEL 3470. Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements. May be repeated for credit. <i>Odd Fall.</i> M&S fee: \$15.00	EEL 4783C ECS-ECE 3(2,3) Computer-Aided Engineering Design: PR: EEL 4768C. Review of currently available CAE tools for digital hardware and software design applications. <i>Occasional.</i> M&S fee: \$5.00
EEL 3342C ECS-ECE 3(2,3) Introduction to Digital Circuits and Systems: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049 or C.I. (To enroll in this course, a C or better with a cumulative GPA of 2.7 or better for the above courses is required). Switching theory and devices. Combinational and sequential logic. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters. <i>Fall, Spring.</i> M&S fee: \$15.00	EEL 4440 ECS-ECE 3(3,0) Optical Engineering: PR: EEL 3470, EEL 3552C or C.I. Lens systems, aberrations, sources, radiometry, detectors, physical optics, interferometric devices, applications to engineering design problems. <i>Spring.</i>	EEL 4791 ECS-ECE 3(2,4) Telemetry and Space Computer Systems: PR: EEL 3552C and EEL 3801C, EEL 3657, EEL 3307C, EEL 3470. Telemetry and computer sub-systems are discussed as they are implemented in the space-launch system "inertial upper stages". <i>Occasional.</i>
EEL 3470 ECS-ECE 3(3,0) Electromagnetic Fields: PR: EEL 3004. Electric and magnet fields and electromagnetic waves. <i>Fall, Spring.</i>	EEL 4512C ECS-ECE 4(3,3) Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise: design and comparison systems in the presence of noise. <i>Occasional.</i> M&S fee: \$15.00	EEL 4817H ECS-ECE 3(3,0) Honors Current Topics in Machine Learning II: PR: Consent of Honors and EEL 4817H. Research topics in machine learning that are of current interest to the Machine Learning community. Students will be assigned a research project. With Honors content. <i>Occasional.</i>
EEL 3520 ECS-ECE 3(3,0) Information Theory: PR: MAC 2147. Fundamentals of information theory and communication systems. Topics include: the definition of information, band width and frequency spectrum, systems design, filters, modulations, demodulators, antennas, and wireless communications. Not open to EE or CpE majors. <i>Fall, Spring.</i>	EEL 4515C ECS-ECE 4(3,3) Digital Communication Systems: PR: EEL 3552C. Sampling and quantization, PAM, PWM, PTM, PCM, and Delta Modulation ASK, FSK, PSK, MPSK, introduction to coding. <i>Fall.</i> M&S fee: \$15.00	EEL 4818H ECS-ECE 3(3,0) Honors Current Topics in Machine Learning I: PR: Consent of Honors and EEL 3801C or COP 3223 or STA 3032. Machine learning, ART Neural networks, random neural network, genetic algorithms, decision trees, statistical techniques, and implementation issues. With Honors content. <i>Occasional.</i>
EEL 3552C ECS-ECE 4(3,3) Analog and Digital Communication Fundamentals: PR: EEL 3123C. Fundamentals of AM and FM, Baseband pulse and digital signaling, Bandpass signaling, digital modulation and detection, and error probability of simple digital systems. <i>Fall, Spring.</i> M&S fee: \$15.00	EEL 4518 ECS-ECE 3(3,0) Satellite Communications: PR: EEL 3552C. The principles of satellite communications, including communications satellites, Earth stations, link analysis, FDMA and TDMA. May be repeated for credit. <i>Fall.</i>	EEL 4832 ECS-ECE 3(3,0) Engineering Applications of Computer Methods: PR: MAP 2302, STA 3032, EGN 3420. Engineering applications of numerical methods, including solution of differential equations, simulation, optimization, and multidimensional root-finding, integration and series approximations. <i>Fall, Spring.</i>
EEL 3657 ECS-ECE 3(3,0) Linear Control Systems: PR: EEL 3123C. Control theory, transfer function modeling, Nyquist criteria, root locus, Bode plots, and Design of lead and lag compensation. <i>Fall, Spring.</i>	EEL 4612 ECS-ECE 3(3,0) Introduction to Modern and Robust Control: PR: EEL 3657. Classical control theory including differential equations and Laplace transform techniques, stability analysis, and classical frequency domain design. <i>Occasional.</i>	EEL 4851C ECS-ECE 4(3,3) Engineering Data Structures: PR: EEL 3801C. Design of data structures and algorithms, with emphasis on performance analysis, memory organization, stacks, queues, linked lists, trees, graphs, searches, and sorts. Introduction to object-oriented structures. <i>Fall, Spring.</i> M&S fee: \$5.00
EEL 3801 ECS-ECE 3(3,0) Introduction to Computer Engineering: PR: "C" (2.0) or better in the following MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049; CR: EEL 3342C. Logic design, computer arithmetic, Instruction Set Architecture (MIPS, SPIM simulator), performance, data path, control unit, memory hierarchy, I/O interface. <i>Fall, Spring.</i> M&S fee: \$10.00	EEL 4635C ECS-ECE 4(3,3) Computer Control Systems: PR: EEL 3657. Discrete-time systems, the z-transform, and single loop computer control systems. Digital simulation in the analysis and design of processes with embedded computers. No graduate credit for both EEL 5630 and this course. <i>Occasional.</i> M&S fee: \$15.00	EEL 4872 ECS-ECE 3(3,0) Engineering Applications of Intelligent Systems: PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures. <i>Occasional.</i>
EEL 4130 ECS-ECE 3(3,0) Fundamentals of Continuous Simulation: PR: MAP 2302. Fundamental concepts of continuous system simulation. Numerical integration, math modeling, simulation software. May be repeated for credit. <i>Occasional.</i>	EEL 4664 ECS-ECE 3(3,0) Autonomous Robotic Systems: PR: EEL 3657. Robotics with emphasis on kinematics, dynamics, trajectory planning, regulation and tracking, formation control, and cooperative rules and behaviors of robotic vehicles. <i>Occasional.</i>	EEL 4882 ECS-ECE 3(3,0) Engineering Systems Software: PR: EEL 4851C and EEL 4767C. Introduction to operating systems concepts and facilities for engineering applications, including multiprogramming, resource allocation and management, systems utilities, and operating system implementation. <i>Fall, Spring.</i>
EEL 4140C ECS-ECE 4(3,3) Analog Filter Design: PR: EEL 3123C. Passive and active analog filter design. <i>Fall.</i> M&S fee: \$15.00	EEL 4750 ECS-ECE 3(3,0) Digital Signal Processing Fundamentals: PR: EEL 3552C. Study of discrete-time signals and systems, Z-transform, DFT introduction to digital filter design. <i>Fall, Spring.</i>	EEL 4884C ECS-ECE 4(3,3) Engineering Software Design: PR: EEL 4851C. Software systems development life cycle, function and object-oriented methodologies, CASE; Analysis, design, and development of a large software project. <i>Fall, Spring.</i> M&S fee: \$5.00
EEL 4205 ECS-ECE 3(3,0) Electric Machinery: PR: EEL 3004. Fundamentals of DC and AC electric machines. <i>Occasional.</i>	EEL 4767C ECS-ECE 4(3,3) Computer System Design I: PR: EEL 3342C and EEL 3801C. Basic computer organization and design. Computer performance metrics, introduction to processor, memory and I/O organization and design. Assembly language programming and microprocessor based design. <i>Fall, Spring.</i> M&S fee: \$30.00	
EEL 4216 ECS-ECE 3(3,0) Fundamentals of Electric Power Systems: PR: EEL 3004 or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, and transmission lines. <i>Spring.</i>		

UCF Courses and Descriptions

<p>EEL 4890 ECS-ECE 3(3,0) Continuous System Simulation I: PR: MAP 2302. Numerical integration techniques and discrete time system models for approximating the dynamics of continuous systems. <i>Occasional.</i></p>	<p>EEL 5390 ECS-ECE 3(3,0) Full-Custom VLSI Design: PR: EEL 3342C, EEL 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification. <i>Spring.</i></p>	<p>EEL 5708 ECS-ECE 3(3,0) High Performance Computer Architecture: PR: EEL 4767C. Engineering of high performance computer systems. Memory, processor and control sub-systems design tradeoffs. Virtual and cache memory. Pipelining, vector computing. <i>Fall.</i></p>
<p>EEL 4914 ECS-ECE 3(2,1) Senior Design I: PR: EEL 3307C, EEL 3657, and EEL 3552C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, ethics, social impact and engineering organizations are considered. <i>Fall, Spring.</i></p>	<p>EEL 5425C ECS-ECE 4(3,3) RF and Microwave Measurement Techniques: PR: EEL 4436C or EEL 5482 or EEL 5555C. RF & 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. <i>Fall.</i> M&S fee: \$30.00</p>	<p>EEL 5722C ECS-ECE 3(3,1) Field-Programmable Gate Array (FPGA) Design: PR: EEL 3342C or C.I. FPGA; architectures; design flow; applications; logic synthesis; technology mapping, placement; routing; multi-FPGA systems; multi context; reconfigurable computing; evolvable hardware. <i>Even Fall.</i></p>
<p>EEL 4915L ECS-ECE 3(0,3) Senior Design II: PR: EEL 4914. Execution of electrical and computer engineering project including complete project design review, construction, testing and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort and final report. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>EEL 5432 ECS-ECE 3(3,0) Satellite Remote Sensing: PR: 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. <i>Occasional.</i></p>	<p>EEL 5762 ECS-ECE 3(3,0) Performance Analysis of Computer and Communication Systems: PR: EEL 4767C, STA 3032. Stochastic modeling and discrete-event simulation; Markov chains; networks of queues; SemiMarkov models; application to multiprocessor systems, switching and multi-user communications. <i>Occasional.</i></p>
<p>EEL 5072 ECS-ECE 3(3,0) Biomedical Sensors: PR: 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. <i>Occasional.</i></p>	<p>EEL 5462C ECS-ECE 3(3,1) Antenna Analysis and Design: PR: EEL 3470 or equivalent. Fundamentals of antennas; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas. <i>Odd Fall.</i> M&S fee: \$5.00</p>	<p>EEL 5771C ECS-ECE 3(2,3) Engineering Applications of Computer Graphics: PR: EGN 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments. <i>Occasional.</i> M&S fee: \$5.00</p>
<p>EEL 5173 ECS-ECE 3(3,0) Linear Systems Theory: PR: EEL 3657. Models and properties of linear systems, transformation, controllability and observability, control and observer designs, MFD, and realization theory. <i>Spring.</i></p>	<p>EEL 5482 ECS-ECE 3(3,0) Electromagnetic Theory I: PR: Graduate standing or C.I. Maxwell's equations, boundary conditions, propagation and reflection, guided waves. <i>Occasional.</i></p>	<p>EEL 5780 ECS-ECE 3(3,0) Wireless Networks: PR: 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). <i>Even Spring.</i></p>
<p>EEL 5245C ECS-ECE 3(2,1) Power Electronics: PR: EEL 4309C. Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cycloconverters, applications. <i>Fall.</i></p>	<p>EEL 5513 ECS-ECE 3(3,0) Digital Signal Processing Applications: PR: EEL 4750. The design and practical consideration for implementing Digital Signal Processing Algorithms including Fast Fourier Transform techniques, and some useful applications. <i>Spring.</i></p>	<p>EEL 5820 ECS-ECE 3(3,0) Image Processing: PR: MAP 2302, EGN 3420, 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. <i>Odd Spring.</i></p>
<p>EEL 5332C ECS-ECE 3(2,1) Thin Film Technology: PR: EEL 3306 or equivalent. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices. <i>Occasional.</i> M&S fee: \$30.00</p>	<p>EEL 5517 ECS-ECE 3(3,0) Surface Acoustic Wave Devices and Systems: PR: 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. <i>Occasional.</i></p>	<p>EEL 5825 ECS-ECE 3(3,0) Pattern Recognition: PR: MAP 2302, EGN 3420. Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum decision criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions. <i>Occasional.</i></p>
<p>EEL 5352 ECS-ECE 3(3,0) Semiconductor Material and Device Characterization: PR: EEL 3306 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. <i>Occasional.</i></p>	<p>EEL 5542 ECS-ECE 3(3,0) Random Processes I: PR: EEL 3552C and STA 3032. Elements of probability theory, random variables, and stochastic processes. <i>Fall, Spring.</i></p>	<p>EEL 5860 ECS-ECE 3(3,0) Software Requirements Engineering: PR: 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. <i>Occasional.</i></p>
<p>EEL 5353 ECS-ECE 3(3,0) Semiconductor Device Modeling and Simulation: PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included. <i>Spring.</i></p>	<p>EEL 5547 ECS-ECE 3(3,0) Introduction to Radar Systems: PR: EEL 3552C. Introduction to Pulse and CW Radar Systems. Chirp Radar Systems. Tracking Radar. Noise in Radar Systems. <i>Spring.</i></p>	<p>EEL 5874 ECS-ECE 3(3,0) Expert Systems and Knowledge Engineering: PR: EEL 4872 or C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented. <i>Spring.</i></p>
<p>EEL 5355C ECS-ECE 4(3,3) Fabrication of Solid-State Devices: PR: EEL 3306. Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology. <i>Fall, Spring.</i> M&S fee: \$45.00</p>	<p>EEL 5555C ECS-ECE 3(2,1) RF and Microwave Communications: PR: EEL 4436C or equivalent. RF and microwave active circuits microstrip amplifier, oscillator, and mixer design and fabrication. Receiver design, noise, familiarization with network and spectrum analyzers. <i>Occasional.</i> M&S fee: \$30.00</p>	<p>EEL 5881 ECS-ECE 3(3,0) Software Engineering I: PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer software for Engineering applications. <i>Fall, Spring.</i></p>
<p>EEL 5370 ECS-ECE 3(3,0) Operational Amplifiers: PR: EEL 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. <i>Even Fall.</i></p>	<p>EEL 5625 ECS-ECE 3(3,0) Applied Control Systems: PR: C.I. Designed to develop basic understanding of advanced control methods for non-linear systems described by ordinary and partial differential equations and to expose recent results and ongoing research issues in the area of MEMS. <i>Occasional.</i></p>	<p>EEL 5892 ECS-ECE 3(3,0) Continuous System Simulation II: PR: EEL 4890. Introduction to Simulink. Numerical integration including one-step and multi-step methods. Stiff systems and numerical stability. Simulink projects. <i>Odd Spring.</i></p>
<p>EEL 5378 ECS-ECE 3(3,0) CMOS Analog and Digital Circuit Design: PR: EEL 4309C. Advanced principles and design techniques for CMOS ICs including most recent published results. <i>Fall.</i></p>	<p>EEL 5630 ECS-ECE 3(3,0) Digital Control Systems: PR: EEL 3657. Real-time digital control system analysis and design, Z-transforms, sampling and reconstruction, time and frequency response, stability analysis, digital controller design. <i>Fall.</i></p>	<p>EEL 5704 ECS-ECE 3(3,0) Computer Aided Logical Design: PR: EEL 4767C. Design, analysis and synthesis of sequential logic circuits and systems. Data path and controller design using a hardware description language. <i>Occasional.</i></p>

EEL 5936 ECS-ECE 0(1,0) Current Topics in EECS: PR: Open to all ECE graduate students. Lectures presented by ECE and national lectures will provide our students a broad view of the state of the art EE and CE fields. Graded S/U. <i>Occasional.</i>	EET 4339C ECS-ENT 3(2,2) Antennas and Propagation: PR: EET 4329C. Transmission lines, impedance matching, use of Smith Chart. Antenna principles. Beamwidth, gain, directivity, effects of height, path-loss. System design. <i>Occasional.</i>	EEX 3243 ED-CFCS 3(3,1) Techniques for Exceptional Adolescents-Adults: CR: EEX 3241. A study of strategies, basic and functional content, career and vocational educational, and transition planning for adolescents and adults with special needs. <i>Spring.</i>
EES 4111C ECS-CEE 3(2,3) Biological Process Control: CR: ENV 4561. Engineering design, measurements and analysis of biological systems in environmental engineering for water management, bio-energy products, wastewater treatment, and others. <i>Spring.</i> M&S fee: \$45.00	EET 4359C ECS-ENT 4(3,2) Digital Communications Systems: PR: EET 4158C. Theory and application of techniques utilized in digital data transmission and reception. <i>Occasional.</i>	EEX 3450 ED-CFCS 3(3,0) Young Children With Special Needs: Provides an overview of the unique field of early childhood special education, its mission, and approaches to helping young children and their families. <i>Spring.</i>
EES 4202C ECS-CEE 3(2,3) Chemical Process Control: PR: ENV 3001. Engineering design, measurements, and analysis of chemical systems in environmental engineering to control treatment processes such as softening, coagulation, disinfection, scrubbing, neutralization, and others. <i>Fall.</i> M&S fee: \$45.00	EET 4389C ECS-ENT 3(2,2) Satellite Communication Systems: PR: EET 4329C. System analysis and design, Orbits, launching methods. Baseband signals and modulation. Link design, synchronization techniques. Interference, noise, access. Antennas, spectrum utilization. <i>Occasional.</i>	EEX 3754 ED-CFCS 3(3,0) Parents as Educators: Develop parental awareness of their role in child development and school success. Attention given to social context of parenting and parents as advocates for children. <i>Occasional.</i>
EES 5318 ECS-CEE 3(3,0) Industrial Ecology: PR: 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. <i>Occasional.</i>	EET 4548 ECS-ENT 3(3,0) Power Systems: PR: EET 2025C or equivalent. Analysis of electrical power systems and energy conversion. 3-phase load, per-unit quantities, circuit constants, rotating machines, 3-phase transformers, transmission lines, power flow, stability and fault calculations. <i>Fall.</i>	EEX 3864 ED-CFCS 6(0,16) Internship I: PR: EDG 4323, RED 3012, EEX 2010, EEX 3241. Satisfactory completion of the portfolio. Internship assignment 2 days a week under a certified exceptional education teacher. Half in elementary, half in secondary. Graded S/U. <i>Occasional.</i>
EES 5605 ECS-CEE 3(3,0) Outdoor Noise Control: PR: C.I. Community noise evaluation and control, legislative standards, instrumentation and measurement, abatement methods, and noise modeling. <i>Occasional.</i>	EET 4732C ECS-ENT 4(3,3) Feedback Control Systems: PR: EET 3716 and PHY 2053C. Modeling and analysis of networks and control systems. Stability and compensation considerations, using root locus, Nichols chart and Bode plots. Simulation techniques, system components. <i>Spring.</i> M&S fee: \$10.00	EEX 3942 ED-CFCS 3(3,0) Internship I Exceptional Education: PR: EDG 4410, RED 3012, EEX 2010, EEX 3241, MAE 2801. Student teaching in exceptional education in both elementary and secondary school settings under the supervision of a certified classroom teacher. Graded S/U. <i>Fall, Spring.</i>
EET 2025C ECS-ENT 4(3,2) Electrical Circuits: PR: EET 1015C or EET 3085C. Frequency domain and steady state analysis of electric circuits: RCL circuits, timed circuits, resonance and "Q," filters, magnetically coupled circuits, transformers, 3-phase circuits, power relationships. <i>Occasional.</i> M&S fee: \$10.00	EET 4915C ECS-ENT 3(1,4) Senior Design Project: PR: Electronics Engineering Technology senior entering anticipated graduation semester or C.I. Individual or group project involving project definition planning, development, test and evaluation. Progress reports, final oral presentation and final written report required. <i>Occasional.</i>	EEX 4003 ED-CFCS 3(3,0) Teaching Exceptional Students: PR: EDG 4323. Development and practice of effective teaching and management strategies for elementary regular classroom teachers to use in working with mild disabilities. <i>Fall, Spring.</i>
EET 3085C ECS-ENT 4(3,2) Electricity and Electronics: PR: MAC 1105 or equivalent. Basic theorems and circuit analysis techniques. Instruments and measurements. Introduction to integrated circuits. <i>Occasional.</i> M&S fee: \$10.00	EET 2010 ED-CFCS 3(3,0) Introduction to Special Education: Orientation to the education of children and adolescents with special needs in the schools. The course includes characteristics, trends, mainstreaming, and other issues. <i>Fall, Spring.</i>	EEX 4054 ED-CFCS 2(2,0) Application and Theories for Students with Special Needs: PR: EEX 2010, EDG 4323. Theories and historical foundations for students with specific learning, physical, cognitive, and emotional disabilities. <i>Spring.</i>
EET 3086 ECS-ENT 4(4,0) Principles of Electrical Circuits: PR: MAC 1105. DC, AC circuits and electronics. Theorems and circuit analysis techniques. Diodes and transistors circuit applications. Introduction to transducers, instrumentation, measurements and integrated circuits. <i>Occasional.</i>	EEX 2310 ED-CFCS 3(3,0) Exceptional Populations in School and Society: Characteristics of exceptionalities in school and society to increase student awareness and comfort levels with individuals with exceptionalities. <i>Fall, Even Spring.</i>	EEX 4066 ED-CFCS 3(3,0) Curriculum, Theory and Instructional Strategies for Students with Special Needs: PR: EEX 3241, RED 3012, LAE 4314. Theoretical concepts, curriculum development and specialized strategies for students with special needs. <i>Occasional.</i>
EET 3143C ECS-ENT 4(3,2) Electronic Devices and Circuits: PR: DC & AC Circuits; MAC 1114. Theory, characteristics, operational parameters, circuits and applications of solid state electronic devices. Bipolar and field effect transistors, multistage amplifiers, power amplifiers. <i>Occasional.</i>	EEX 2758 ED-CFCS 2(2,0) Enhancing Family Involvement in Education: Development of partnerships with families of students with disabilities and their communities to address the educational needs of all students. <i>Fall, Spring.</i>	EEX 4074 ED-CFCS 3(3,0) Teaching Exceptional Students in Secondary Settings: PR: EDG 2701, EDG 4323. Instructional and management strategies for secondary general education teachers to use in working with students with disabilities. <i>Fall, Spring.</i>
EET 3716 ECS-ENT 3(3,0) Network Analysis: PR: DC/AC circuits and Calculus I. Transient analysis of first and second-order circuits, circuit analysis using LaPlace Transforms. Transform function, frequency response analysis, and Bode plots. May be repeated for credit. <i>Spring.</i>	EEX 3102 ED-CFCS 3(3,0) Language Development and Communication Disorders: PR: Junior standing. Interdisciplinary approach to language development, identification and remediation of communication and language disorders. <i>Occasional.</i>	EEX 4601 ED-CFCS 3(3,0) Introduction to Behavior Management: Study of management techniques based on applied behavioral analysis principles for modifying inappropriate behaviors and maintaining appropriate behaviors of exceptional students. <i>Fall, Spring.</i>
EET 4158C ECS-ENT 3(2,2) Linear Integrated Circuits: PR: EET 3716, or Consent of Coordinator. Applications of operational amplifiers, comparators, phase-locked loops, timers, regulators, other integrated circuits. Includes amplifiers, active filters, oscillators, differentiators and integrators. <i>Fall.</i> M&S fee: \$10.00	EEX 3221 ED-CFCS 3(3,0) Assessment of Exceptional Students: Formal and informal assessment techniques for screening, placement, program planning, program evaluation, and monitoring of progress of exceptional students. <i>Fall, Spring.</i>	EEX 4751 ED-CFCS 3(3,0) Parent Involvement in Education: This course prepares students to successfully interact with and involve parents in their child's education. <i>Occasional.</i>
EET 4329C ECS-ENT 4(3,2) Communications Systems: PR: EET 4158C. Electronics Devices Principles and interrelationships of communication system components and circuits. Signals, noise, modulation, demodulation, bandwidth requirements. Transmitters and receivers. <i>Occasional.</i> M&S fee: \$10.00	EEX 3241 ED-CFCS 3(3,0) Methods for Academic Skills for Exceptional Students: PR: EEX 2010, EEX 3864. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I. <i>Fall, Spring.</i>	EEX 4753 ED-CFCS 3(3,0) Parent/professional Collaboration: The special educator's role in working with families, regular educators, and other professionals in a collaborative relationship. <i>Fall.</i>
		EEX 4757 ED-CFCS 3(3,0) Respite Care: PR: Junior Standing or C.I. General knowledge and best practice in the field of temporary care: the nature and needs of care givers and care recipients, including special populations. <i>Fall, Spring.</i>

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<p>EEX 4763 ED-CFCS 3(3,0) Technology for Classroom Teachers of Students with Special Needs: PR: EEX 3241, RED 3012, LAE 4314, MAE 2801. Enhancing teacher preparation through the use of technology for students with special needs. <i>Fall, Spring.</i></p>	<p>EGN 1111C ECS-MMAE 2(1,3) Engineering Computer Graphics: PR: Trigonometry. Spatial visualization, sketching and graphical presentation as a form of computerized engineering communication. Engineering drawing, descriptive geometry and graphical solution techniques using computer software. <i>Fall, Spring.</i> M&S fee: \$10.00</p>	<p>EGN 3358 ECS-MMAE 3(3,0) Thermo-Fluids-Heat Transfer: PR: EGN 3310, MAP 2302. Introduction to first and second laws of thermodynamics, continuum fluid mechanics, and heat transfer for electrical, industrial, and computer engineering majors. <i>Fall, Spring.</i></p>
<p>EEX 4943 ED-CFCS 12(0,35) Internship II: PR: Completion of specialization. Satisfactory completion of the portfolio. Full day student teaching under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U. <i>Occasional.</i></p>	<p>EGN 1360 ECS-MMAE 3(3,0) Materials in Today's World: A survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today's world with emphasis on modern developments and new materials. <i>Occasional.</i></p>	<p>EGN 3365 ECS-MMAE 3(3,0) Structure and Properties of Materials: PR: CHS 1440 and MAC 2312. Atomic structure and bonding, crystal structure and imperfections, solidification, phase transformations, phase diagrams, heat treatment, mechanical & electrical properties, materials characterization techniques. <i>Fall, Spring.</i></p>
<p>EEX 5051 ED-CFCS 3(3,0) Exceptional Children in the Schools: PR: Senior standing or C.I. Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools. <i>Fall, Spring.</i></p>	<p>EGN 2815C ECS-MMAE 3(2,3) Space Science and Technology: Past, Present, and Future: Introduction to space technology, past, present and future. Applications to modern life. <i>Occasional.</i></p>	<p>EGN 3373 ECS-ECE 3(3,0) Principles of Electrical Engineering: PR: PHY 2049; CR: MAP 2302. Fundamentals of electrical circuits and analysis; fundamentals of electronics and AC power systems, transformers, electromechanics and rotating machines. <i>Fall, Spring.</i></p>
<p>EEX 5702 ED-CFCS 3(3,0) Planning Curriculum for Pre-kindergarten Children with Disabilities: Focus on curriculum planning; developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities. <i>Odd Spring.</i></p>	<p>EGN 2920C ECS-IEMS 2(1,1) LEAD Colloquium: PR: C.I., LEAD Scholars Program, Must have completed at least two of the following with a grade of B or better, IDS 1040C, GEB 1091C, EGN 1036C, EDG 1005C or HSC 1931C. Provides experiential leadership experience in an appropriate leadership setting under the direction of a university supervisor with the LEAD Scholars Program. May be repeated for credit. <i>Occasional.</i></p>	<p>EGN 3373H ECS-ECE 3(3,0) Principles of Electrical Engineering Honors: PR: Permission of Honors and PHY 2049, CR: MAP 2302. Fundamentals of electrical circuits and analysis. Fundamentals of electronics and AC power systems, transformers, electromechanics and rotating machines. <i>Spring.</i></p>
<p>EEX 5750 ED-CFCS 3(3,0) Communication with Parents and Agencies: Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition. <i>Occasional.</i></p>	<p>EGN 3060C ECS-ECS 3(2,3) Introduction to Robotics: PR: Engineering majors take EGN 1007C and (EEL 3004 or EGN 3373) ; Computer Science majors take COP 3330, COP 3503C and COT 3960. Introduction to classical and modern topics in robotics: mechanisms and mechatronics, sensors, data processing, and vision, kinematics and dynamics, path and motion planning, controls, AI and evolutionary computing, cooperative control and behaviors. <i>Occasional.</i></p>	<p>EGN 3420 ECS-ECE 3(3,0) Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting. <i>Fall, Spring.</i></p>
<p>EGM 3601 ECS-MMAE 3(3,0) Solid Mechanics: PR: EGN 3310 and "C" (2.0) or better in the following MAC 2311, MAC 2312, MAC 2313 and PHY 2048 CR: MAP 2302. Concepts of stress, strain, deflection; axial force, torsion, bending, combined stress, Mohr's circle, failure theories, design concepts, application to machines and vehicles. <i>Fall, Spring.</i></p>	<p>EGN 3211 ECS-ECE 3(3,0) Engineering Analysis and Computation: PR: MAC 2311. Engineering analysis and computation with structured constructs. Subscripted variables, subprograms, input/output. Batch processing and time sharing. Engineering applications will be emphasized. <i>Fall, Spring.</i></p>	<p>EGN 3613 ECS-IEMS 2(2,0) Engineering Economic Analysis: PR: ECO 2013. Economic evaluation of engineering alternatives and design. Time value of money and economic impact of taxes, risk, depreciation. <i>Fall, Spring.</i></p>
<p>EGM 3601L ECS-MMAE 1(0,3) Solid Mechanics Lab: CR: EGM 3601. Solid Mechanics Laboratory experiments covering topics such as Tension/compression testing, torsion testing, strain gage measurements, buckling testing, beam bending/deflection testing. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>EGN 3310 ECS-CEE 3(3,0) Engineering Analysis-Statics: PR: PHY 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analysis of structures. <i>Fall, Spring.</i></p>	<p>EGN 3843 ECS-IEMS 3(3,0) Systems Modeling: PR: CGS 1060C or equivalent. Representation of man/machine systems through analytic and computer-based models. Case studies in the analysis and improvement of systems in industry, education, and government. <i>Occasional.</i></p>
<p>EGN 1006C ECS-ECS 1(1,2) Introduction to the Engineering Profession: PR: New students status or C.I. Overview of academic and professional requirements in various engineering disciplines. <i>Fall.</i> M&S fee: \$5.00</p>	<p>EGN 3310H ECS-CEE 3(3,0) Engineering Analysis-Statics (Honors): PR: Permission of Honors and PHY 2048; CR: MAC 2312. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit. <i>Fall.</i></p>	<p>EGN 4412C ECS-MMAE 3(1,5) Interdisciplinary Design I: PR: Industrial: EIN 4364C; Comp and Elect: EEL 3307C, EEL 3657, EEL 3552C, EEL 3801C; Aero: EAS 3810C, CR: EML 4312C, EAS 4404C; Comp Sci: COT 3960, COP 3503C; Mech: EML 3500, EML 3701, EML 3303C, CR: EML 4312C, EML 4804C. Application of the design process for interdisciplinary students to solve state-of-the-art engineering problems by system analysis, design, integration, manufacture and testing methods. <i>Fall.</i></p>
<p>EGN 1007C ECS-ECS 1(1,2) Engineering Concepts and Methods: PR: New student status or C.I., EGN 1006C and ENC 1101; CR: SPC 1016. Introduction to the use of computer and applications software in solving engineering problems. Introduction to the concepts of engineering design through the use of teams: engineering communication; engineering professionalism and ethics. <i>Spring.</i> M&S fee: \$5.00</p>	<p>EGN 3321 ECS-MMAE 3(3,0) Engineering Analysis-Dynamics: PR: EGN 3310; CR: MAC 2313. Kinematics and kinetics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum. <i>Fall, Spring.</i></p>	<p>EGN 4413C ECS-MMAE 3(1,5) Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I May be repeated for credit. <i>Spring.</i></p>
<p>EGN 1036C ECS-IEMS 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Engineering & Computer Science providing a foundation of leadership, scholarship, and service regarding disciplines in the college. <i>Fall, Spring.</i></p>	<p>EGN 3321H ECS-MMAE 3(3,0) Engineering Analysis - Dynamics Honors: PR: Permission of Honors and EGN 3310. Kinematics and kinetics of particles and rigid bodies; mass and acceleration; work and energy; impulse and momentum. <i>Occasional.</i></p>	<p>EGN 4624 ECS-IEMS 3(3,0) Engineering Administration: PR: Senior standing. Engineering organization and administration; delegation of authority and responsibility; effective use of resources; project management; R and D planning; ethics in professional practice. <i>Fall, Spring.</i></p>
<p>EGN 1050C ECS-ECS 3(2,2) The Digital Universe: PR: High School Algebra or Trigonometry. Science, math, engineering, and technology fundamentals of the information technology. Historical significance of the advances in digital technology. Real world applications. Hands-on laboratories using digital signal processor kits. <i>Occasional.</i></p>	<p>EGN 3331 ECS-CEE 3(3,0) Mechanics of Materials: PR: EGN 3310 with a grade of "C" or better; CR: MAP 2302. Concepts of stress, strain, strength, deflection of axial force members, shafts in torsion, beams in flexure, combined stress, stability of columns, and design of simple elements. <i>Fall, Spring.</i></p>	<p>EGN 4706C ECS-MMAE 3(2,4) Small Satellite Payloads and Integration: PR: EML 3303C OR EAS 3800C OR EEL 3801C OR ESI 4523C. Evaluate overall impact of integration and design concepts on various satellite component subsystems and their payloads into a small satellite system design leading to a final configuration. <i>Occasional.</i></p>
<p>EGN 3343 ECS-MMAE 3(3,0) Thermodynamics: CR: EGN 3321, MAP 2302. Work, heat, and energy transformations. Relation of properties. Laws, concepts, and modes of analysis common to all applications of thermodynamics in engineering. <i>Fall, Spring.</i></p>		

EGN 4707C ECS-MMAE 3(2,4)
Processing Space-Launch Systems: PR: For ECE: EEL 3552C or EEL 4767C; For IEMS: ESI 4523C; For MAE: EAS 3800C. Assembly and test techniques for preparing and check-out of the space-launch system "Inertial Upper Stage." May be repeated for credit. *Occasional.*

EGN 4824 ECS-ENT 3(3,0)
Energy and Society: Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions. *Occasional.*

EGN 4830 ECS-ENT 3(3,0)
Telecommunications: Telecommunications and its role in contemporary local, national, and international society. *Occasional.*

EGN 4921C ECS-ECS 2(2,1)
Interdisciplinary Research and Development I: PR: Junior standing in Engineering or Computer Science major. Research and methodology seminar. Topics to include: intellectual property, patents, global R&D, dissemination of findings. Seminar presentations by guest research lecturers. *Occasional.*

EGN 4922C ECS-ECS 2(1,1)
Interdisciplinary Research and Development II: PR: EGN 4921C. Continuation of EGN 4921C. *Occasional.*

EGN 4931H ECS-ECS 3(3,0)
Engineering Honors Seminar: PR: Permission of Honors and Senior standing and C.I. Introduces a select group of students in engineering or other fields of science to the methodology commonly employed in research. Students will carry out independent research which will prepare them for graduate study. *Occasional.*

EGN 4933C ECS-ECS 1(1,1)
Professional Practice I: PR: Junior standing in engineering or computer science. Contemporary global technical issues, professional development, life long learning, and ethical responsibilities. Community service and/or community outreach projects required. *Occasional.*

EGN 4934C ECS-ECS 2(1,2)
Professional Practice II: PR: EGN 4933C. Continuation of EGN 4933C. *Occasional.*

EGN 5035 ECS-ECS 3(3,0)
Topics in Technological Development: PR: C.I. Selected topics in the technological development of western civilization including the weight-driven clock, steam engine, electric light, etc. *Occasional.*

EGN 5720 ECS-IEMS 3(2,3)
Internal Combustion Engine Analysis and Optimization: PR: EGN 3343 or EGN 3358 or C.I. Internal combustion engine operating principles. Topics covered include engine design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models. *Even Fall, Even Spring.* M&S fee: \$45.00

EGN 5840 ECS-MMAE 3(3,0)
Small Rocket Applications for Teachers: PR: Admission to Martin Marietta/UCF Academy. Earth and space environments, rocket propulsion, meteorological and environmental measurements, payload launch procedures, orbits and trajectories, safety, model rocket experiments, field trips, student science experiments. *Occasional.*

EGN 5855C ECS-IEMS 3(2,2)
Metrology: PR: EGN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing. *Occasional.*

EGN 5858C ECS-IEMS 3(2,1)
Prototyping and Product Realization: PR: Basic knowledge and/or experience in CAD/CAM technology or C.I. Product design and development cycle including design for functionality and manufacturability. Fundamentals, applications and practice of rapid prototyping and reverse engineering technologies. *Spring.* M&S fee: \$45.00

EIN 3000 ECS-IEMS 2(2,0)
Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility. *Fall.*

EIN 3314C ECS-IEMS 3(2,2)
Work Measurement & Design: PR: STA 3032. Management standards for evaluation and control of man and man/machine systems. Flow and operations analysis, work measurement, job evaluations. Laboratory assignments. *Fall.* M&S fee: \$20.00

EIN 3354 ECS-IEMS 3(3,0)
Principles of Cost Engineering: PR: EGN 3613. This course is to provide engineers from all disciplines the background for the cost estimation of engineering systems throughout the product life cycle. *Fall.*

EIN 4191C ECS-IEMS 2(2,2)
Engineering Leadership Seminar I: PR: Junior or better standing in engineering with C.I. Progressive engineering leadership development (intrapersonal to interpersonal to organizational to community) via a combination of experiential and practical experiences in engineering-specific corporate and community settings. *Fall.*

EIN 4192C ECS-IEMS 2(2,2)
Engineering Leadership Seminar II: PR: EIN 4191C. Continuation of EIN 4191C. *Spring.*

EIN 4214 ECS-IEMS 3(3,0)
Safety Engineering and Administration: Analysis of accidents in the industrial operating environment. Application of fault trees, OSHA requirements. Consideration of accident costs and organizational aspects of accident prevention. *Occasional.*

EIN 4243C ECS-IEMS 3(2,2)
Human Engineering: PR: EIN 3314C; Senior standing. Man/machine systems; design and conduct of human engineering studies. *Spring.* M&S fee: \$20.00

EIN 4333C ECS-IEMS 3(2,3)
Industrial Control Systems: PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments. *Spring.* M&S fee: \$20.00

EIN 4364C ECS-IEMS 3(2,2)
Industrial Facilities Planning and Design: PR: EIN 3314C, EIN 3354 CR:EIN 4333C, EIN 4391C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments. *Spring.* M&S fee: \$20.00

EIN 4391C ECS-IEMS 3(2,2)
Manufacturing Engineering: PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. *Fall.* M&S fee: \$20.00

EIN 4450 ECS-IEMS 3(3,0)
Principles of Concurrent Engineering: PR: EGN 3613 or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly. *Even Spring.*

EIN 4516C ECS-IEMS 3(2,2)
Systems Analysis and Design: PR: EIN 4364C. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions. Initiation of senior design projects. *Fall.* M&S fee: \$20.00

EIN 4545C ECS-IEMS 3(2,2)
Industrial Engineering Applications in The Service Industries: PR: EIN 3314C, ESI 4312, ESI 4234 or C.I. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc. *Even Fall.*

EIN 4621C ECS-IEMS 3(2,2)
Computer-Aided-Manufacturing: PR: EIN 4391C. Computer-Aided-Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP). *Occasional.* M&S fee: \$45.00

EIN 4891C ECS-IEMS 3(2,3)
Industrial Engineering Senior Design Project: PR: EIN 4516C, Senior standing. Capstone design course; application of IEMS techniques to real-world design applications. *Spring.* M&S fee: \$15.00

EIN 5108 ECS-IEMS 3(3,0)
The Environment of Technical Organizations: PR: Graduate status or C.I; EGN 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.*

EIN 5117 ECS-IEMS 3(3,0)
Management Information Systems I: PR: 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.*

EIN 5140 ECS-IEMS 3(3,0)
Project Engineering: PR: 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.*

EIN 5248C ECS-IEMS 3(2,2)
Ergonomics: PR: C.I. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipments, and workstations. *Fall.* M&S fee: \$20.00

EIN 5251 ECS-IEMS 3(3,0)
Usability Engineering: PR: STA 3032 or equivalent. Usability paradigms/principles; cognitive walkthroughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques: query techniques; laboratory techniques; and field study approaches. *Occasional.*

EIN 5255C ECS-IEMS 3(2,2)
Interactive Simulation: PR: 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, Spring.*

EIN 5317 ECS-IEMS 3(3,0)
Training System Design: PR: seniors, post bac or graduate standing or C.I. How human performance deficiencies should be addressed from a systems design point of view. Manpower, personnel, and training considerations will be examined. *Fall.*

EIN 5346 ECS-IEMS 3(3,0)
Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support. *Occasional.*

UCF Courses and Descriptions

EIN 5356	ECS-IEMS	3(3,0)	EMA 3124	ECS-MMAE	3(3,0)	EMA 5060	ECS-MMAE	3(3,0)
Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle. <i>Spring.</i>			Design and Selection of Materials: PR: EGM 3601, and EGN 3365 or EMA 3706. Relationship between processing, structure and properties of various engineering materials and their selection in engineering design. <i>Fall.</i>			Polymer Science and Engineering: PR: EGN 3365. Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications. <i>Occasional.</i>		
EIN 5368C	ECS-IEMS	3(2,2)	EMA 3691	ECS-MMAE	3(3,0)	EMA 5104	ECS-MMAE	3(3,0)
Integrated Factory Automation Systems: PR: EIN 4391C or C. I. Automated material handling systems, industrial robots, automated guided vehicles, automated storage and retrieval systems, economics, justification. <i>Odd Fall.</i> M&S fee: \$20.00			Nanomaterials Process Engineering: PR: CHS 1440 or CHM 2045C, and PHY 2048 or PHY 2053C. Nanomaterials, processing, nanomachining, nanocompositions, nanocomposites and computations of devices. <i>Occasional.</i>			Intermediate Structure and Properties of Materials: PR: EGN 3365. Fundamentals of dislocation theory, metallurgical thermodynamics and diffusion. Phase transformations, strengthening mechanisms and fracture. Introduction to engineering polymers, ceramics, and composites. <i>Fall.</i>		
EIN 5388	ECS-IEMS	3(3,0)	EMA 3706	ECS-MMAE	3(3,0)	EMA 5106	ECS-MMAE	3(3,0)
Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages. <i>Occasional.</i>			Structure and Properties of Aerospace Materials: PR: CHS 1440 or CHM 2045C and MAC 2312. Atomic structure, bonding, crystal structures, solidification, phase transformations, heat treatment, mechanical behavior, specific aerospace materials, materials design. <i>Fall.</i>			Metallurgical Thermodynamics: PR: EGN 3365. Laws of thermodynamics, phase equilibria, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams. <i>Occasional.</i>		
EIN 5392C	ECS-IEMS	3(2,2)	EMA 4102	ECS-MMAE	3(3,0)	EMA 5108	ECS-MMAE	3(3,0)
Manufacturing Systems Engineering: PR: EIN 4391C or C.I. The integration of manufacturing technologies and information processing concepts into a system for controlling the manufacturing enterprise. <i>Even Spring.</i> M&S fee: \$20.00			Thermodynamics and Kinetics of Materials: PR: EGN 3343, EGN 3365 or EMA 3706; and a "C" (2.0) or better in all of the following: CHS 1440 or CHM 2045C, MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2048. Application of first, second and third laws of thermodynamics to materials, phase diagrams, statistical thermodynamics, kinetic processes in materials, diffusion, nucleation and growth, and phase transformations. <i>Fall.</i>			Surface Science: PR: PHY 2049 and C.I. Methods of chemical and physical analysis of surfaces, with emphasis on ultra-high vacuum spectroscopies utilizing electron, ion and photon probes. <i>Occasional.</i>		
EIN 5607C	ECS-IEMS	3(2,2)	EMA 4103	ECS-ENT	3(3,0)	EMA 5140	ECS-MMAE	3(3,0)
Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4621C or EML 4535C; or C.I. Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control. <i>Odd Spring.</i> M&S fee: \$45.00			Space Environment Technology: PR: MAC 2253, PHY 2053C. The space environment and how it affects manufacturing of space elements to withstand the harsh space environment. <i>Occasional.</i>			Introduction to Ceramic Materials: PR: EGN 3365. Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications. <i>Occasional.</i>		
EIN 5936	ECS-IEMS	1(1,0)	EMA 4223	ECS-MMAE	3(3,0)	EMA 5317	ECS-MMAE	3(3,0)
Seminar in Industrial Engineering: Doctoral Research: PR: C.I. Essential topics for doctoral research including research areas, skills, funding, proposals, ethics, mentors, seminars, societies, conferences, presentations, interviewing, grants, and publishing. <i>Fall.</i>			Fundamentals of Mechanical Behavior of Materials: PR: EGM 3601, and EGN 3365 or EMA 3706. Elementary treatment of elasticity, plasticity, viscoelasticity, creep, fracture, and fatigue. <i>Spring.</i>			Materials Kinetics: PR: C.I. Mass and thermal transport, phase transformations and Arrhenius rate processes. <i>Occasional.</i>		
ELD 4011	ED-CFCS	3(3,0)	EMA 4413	ECS-MMAE	3(3,0)	EMA 5326	ECS-MMAE	3(3,0)
Intro to Specific Learning Disabilities: Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices. <i>Occasional.</i>			Fundamentals of Electronic Materials: PR: EGN 3365. Electronic processes in solids. Electrical, magnetic, and optical properties of solids. Electron energies in solids. Superconducting materials. <i>Spring.</i>			Corrosion Science and Engineering: PR: EGN 3365. Electrochemical principles and applications to detecting and monitoring corrosion processes. Various forms of corrosion, their causes and control. Techniques of corrosion protection. <i>Occasional.</i>		
ELD 4242	ED-CFCS	3(3,0)	EMA 4501	ECS-MMAE	3(2,2)	EMA 5415	ECS-MMAE	3(3,0)
Program Planning for Specific Learning Disabilities: PR: Senior standing. Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities. <i>Occasional.</i>			Scanning Electron Microscopy: PR: EGN 3365 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. <i>Occasional.</i>			Electronic Principles of Materials Properties: PR: EGN 3365 or C.I. This course will cover electron theory and band structure: electrical, optical, magnetic, and thermal properties of metals, semiconductors and insulators, including device examples. <i>Fall.</i>		
ELD 4320	ED-CFCS	4(4,0)	EMA 4503	ECS-MMAE	3(3,0)	EMA 5504	ECS-MMAE	3(2,2)
Introduction and Program Planning for Specific Learning Disabilities: PR: EEX 2010. Theories and historical foundations of specific learning disabilities and the development of highly specialized techniques and curriculum materials. <i>Occasional.</i>			Materials Characterization Techniques: PR: EMA 3012C, and EGN 3365 or EMA 3706. Theory and practice of commonly used techniques for characterization of crystal structure, microstructure and chemistry. <i>Occasional.</i>			Modern Characterization of Materials: PR: EMA 5104 or C.I. Techniques and operation of instrumentation (light, scanning, transmission, and auger microscopy) for the characterization of structure, defects, composition, and surfaces. <i>Occasional.</i>		
EMA 1002	ECS-MMAE	3(3,0)	EMA 4506	ECS-MMAE	3(3,0)	EMA 5505	ECS-MMAE	3(2,2)
Materials in Today's World: A survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today's world with emphasis on modern developments and new materials. <i>Occasional.</i>			Emerging Materials: PR: EGN 3365, or EMA 3706. Structure, properties and processing of modern emerging materials. <i>Occasional.</i>			Scanning Electron Microscopy: PR: 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. <i>Occasional.</i>		
EMA 3000	ECS-MMAE	3(3,0)	EMA 4606	ECS-MMAE	3(3,0)	EMA 5517	ECS-MMAE	3(2,2)
Engineering Polymeric, Ceramic, and Composite Materials: PR: EGN 3365. Structure, properties, processing of engineering polymeric, ceramic, and composite materials. <i>Occasional.</i>			Transport Phenomena in Materials Processing: PR: EGN 3365, EGN 3343 or EGN 3358. Conservation equations, fluid flow, heat transfer, free and moving boundaries, solidification, single-phase and multi-phase materials, alloys, solute rejection, microstructure, macrosegregation. <i>Occasional.</i>			Advanced Materials Characterization by Ion Beam Analysis: PR: EMA 5504 or C.I. Principle of interactions between ion beam and solid materials; sputtering and scattering theories; fundamentals and applications of secondary ion mass and Rutherford Backscattering spectrometric. May be repeated for credit. <i>Occasional.</i>		
EMA 3012C	ECS-MMAE	3(2,2)	EMA 4701C	ECS-MMAE	3(2,4)	EMA 5584	ECS-MMAE	3(3,0)
Experimental Techniques in Mechanics and Materials: PR: EGN 3365, EGM 3601. Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treatment, mechanical testing (hardness, tensile, impact, etc.). <i>Fall, Spring.</i> M&S fee: \$45.00			Materials Performance in Space Applications: PR: EGN 3365. Laboratory failure analysis of materials within space-related environments. <i>Occasional.</i>			Biomaterials: PR: EGN 3365. Properties of natural biological materials and their relation to microstructure, biocompatibility, specific applications in orthopedic, cardiovascular, visual, neural, and reconstruction implants. <i>Even Spring.</i>		
EMA 3014	ECS-MMAE	3(3,0)						
Nanomaterials Characterization and Applications: PR: EMA 3691. Microstructural and mechanical characterization of nanostructures, nano-coatings, corrosion, magnetics, quantum dots for solar cells, materials for hydrogen economy, laboratory on material characterization. <i>Occasional.</i>								

EMA 5585	ECS-MMAE	3(3,0)	EME 5208	ED-TLP	3(3,0)	EML 4024C	ECS-MMAE	3(2,2)
Materials Science of Thin Films: PR: Graduate standing or C.I. Interaction of thin film processing techniques with the structure and properties of the materials deposited. <i>Odd Fall.</i>			Production Techniques for Instructional Settings: PR: Acceptance into Ed Media Program or C.I. Skills in producing instructional materials. Emphasis on graphic, audio, video, and photographic skills and the application of instructional and communication theories. <i>Spring.</i>			Engineering Design Practice: PR: EML 3034C and EML 3500 or EAS 4200. Basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software. <i>Fall, Spring.</i> M&S fee: \$15.00		
EMA 5586	ECS-MMAE	3(3,0)	EME 5225	ED-TLP	3(3,0)	EML 4142	ECS-MMAE	3(3,0)
Photovoltaic Solar Energy Materials: PR: 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. <i>Occasional.</i>			Media for Children and Young Adults: PR: Acceptance into Ed Media Program or C.I. Survey of materials for children's and young adults' informational and recreational needs; analysis, evaluation, and utilization of print and non-print materials. <i>Spring.</i>			Heat Transfer: PR: EML 3701 and EML 3034C. Conduction, radiation, and convection heat transfer. Basic energy balances emphasized. Steady state and transient problems, analysis and design of simple heat exchangers. <i>Fall, Spring.</i>		
EMA 5587C	ECS-MMAE	3(2,2)	EME 5810	ED-TLP	1(1,0)	EML 4145	ECS-MMAE	1(1,0)
Characterization and Reliability of PV Cells: PR: EGN 3365. Photovoltaic characterization of solar cells, dark and light I-V, C-V, and quantum efficiency, physics of failure of microelectronic devices, solder bonds, encapsulation, PV module reliability. <i>Occasional.</i>			Teaching and Learning with Technology: Overview of technologies for teaching and for learning. Practical strategies for using technology in the classroom. May be used in the degree program a maximum of 4 times. <i>Occasional.</i>			Topics in Heat Transfer: PR: EML 3701, EML 3034C; CR: EML 4142. Boiling and condensation heat transfer. Radiation heat transfer in enclosures without and with participating media. Multi-mode heat transfer. <i>Spring.</i>		
EMA 5588	ECS-MMAE	3(3,0)	EML 3001C	ECS-MMAE	1(1,2)	EML 4220	ECS-MMAE	3(3,0)
Biocompatibility of Materials: PR: EGN 3365 or C.I. Biocompatibility and bioactivity; Cell-biomaterials interactions; Engineering bone & cartilage; Soft-tissue replacements; Total hip replacements; Nanostructures biomaterials, Imaging techniques, Preservation techniques for biomaterials, MSDS and FDA compatibility data. <i>Occasional.</i>			Machine Shop Practice: PR: EGN 1111C or C.I. Set up and operation of mill and lathe, cutting tools, holding devices, cutting speeds and feed rates. Measurement devices. Hands-on experience. <i>Occasional.</i> M&S fee: \$15.00			Vibration Analysis: PR: EGN 3321, EGM 3601 and EML 3034C. Undamped and damped vibration of single degree freedom systems. Forced vibration. Transient response. Multiple degree of freedom systems. Normal modes. <i>Spring.</i>		
EMA 5610	ECS-MMAE	3(3,0)	EML 3034	ECS-MMAE	3(3,0)	EML 4260	ECS-MMAE	3(3,0)
Laser Materials Processing: PR: 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. <i>Occasional.</i>			Modeling Methods in Mechanical and Aerospace Engineering: PR: EGN 1007C or high level programming language, and a "C" (2.0) or better in all of the following prerequisites: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2048; CR: EGN 3321. Computer aided modeling of mechanical and aerospace systems. Solution methods. Curve fitting. Numerical calculus and solution of differential equations with applications to mechanical and aerospace engineering. <i>Fall, Spring.</i>			Dynamics of Machinery: PR: EML 3262 and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects; balancing of rotating and reciprocating masses; cam dynamics. <i>Occasional.</i>		
EMA 5705	ECS-MMAE	3(3,0)	EML 3101	ECS-MMAE	3(3,0)	EML 4264	ECS-MMAE	3(3,0)
High Temperature Materials: PR: EMA 5104 or C.I. Desired material properties for high temperature applications, physical metallurgy of such materials, corrosion, hot corrosion and oxidation properties, aero- and land-based gas turbine requirements. <i>Occasional.</i>			Thermodynamics of Mechanical Systems: PR: EGN 3343 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2048. Applied thermodynamics, availability analysis, thermodynamics of reactive and non-reactive mixtures, thermodynamic relations of properties. Thermodynamic design analysis of complete mechanical systems. <i>Fall.</i>			Vehicle Dynamics: PR: EML 3262 and EML 4220. Basic mechanics governing vehicle dynamics, performance and handling; acceleration, braking, ride, cornering, suspension, steering, rollover. <i>Occasional.</i>		
EME 2040	ED-ERTL	3(3,0)	EML 3262	ECS-MMAE	3(3,0)	EML 4293	ECS-MMAE	3(3,0)
Technology for Educators: Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues. <i>Fall, Spring.</i> M&S fee: \$1.00			Kinematics of Mechanisms: PR: EGN 3321 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2048. Graphical, mathematical, and computer-aided kinematics, analysis, and synthesis of basic mechanisms. <i>Fall.</i>			Essentials of Miniature Engineering Systems: PR: Graduate status or C.I. Engineering of miniature mechanical, thermal, energy, and electrical systems, including advantages, microfabrication methods, and future trends. <i>Occasional.</i>		
EME 5050	ED-ERTL	3(3,0)	EML 3303C	ECS-MMAE	3(2,3)	EML 4304C	ECS-MMAE	2(1,3)
Fundamentals of Technology for Educators: PR: 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. <i>Fall, Spring.</i>			Mechanical Engineering Measurements: PR: EGN 3343, CR: EGM 3601. Theory, calibration and use of instruments. Measurement techniques, data analysis, report writing. Laboratory topics related to mechanical engineering. <i>Fall.</i> M&S fee: \$15.00			Thermo-Fluids Measurements: PR: EML 3303C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments. <i>Spring.</i> M&S fee: \$45.00		
EME 5051	ED-TLP	3(3,0)	EML 3500	ECS-MMAE	3(3,0)	EML 4312C	ECS-MMAE	3(2,3)
Technologies of Instruction & Information Management: PR: Acceptance into Ed Media program or C.I. Theories and practices in utilizing instructional media and information technologies. Emphasis on new and emerging technologies and their effects on the school and media program. <i>Fall.</i>			Machine Design and Analysis: PR: EGM 3601. Application of the principles of mechanics of materials to the design of mechanical elements. <i>Spring.</i>			Feedback Control: PR: EGN 3321, MAP 2302, EGN 3373 and EML 4220 or EAS 4210C. Mathematical modeling of dynamic systems; transient and steady state response; Root Locus and z-transform methods; discrete systems analysis; controller design. <i>Fall.</i>		
EME 5053	ED-ERTL	3(3,0)	EML 3701	ECS-MMAE	3(3,0)	EML 4411	ECS-MMAE	3(3,0)
Electronic Resources for Education: PR: 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. <i>Fall.</i>			Fluid Mechanics I: PR: EGN 3321, EGN 3343 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2048. Principles of continuum fluid mechanics. Integral and differential forms of governing equations, fluid statics, dimensional analysis, measurements, internal flows. <i>Fall, Spring.</i>			Mechanical Power Systems: PR: EML 3101. Analysis and design of large power generating systems and components, with emphasis on steam plants utilizing both chemical and nuclear fuels. <i>Occasional.</i>		
EME 5057	ED-ERTL	3(3,0)	EML 4005	ECS-MMAE	3(3,0)	EML 4501C	ECS-MMAE	3(1,6)
Communication for Instructional Systems—Application: Applications of technology, communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction. <i>Occasional.</i>			Design in Nature and Engineering: PR: EGN 3343 and EGM 3601. Design for function and invention, in both engineering and nature: economy, form, beauty, energy, mechanism, structure, evolution in nature. <i>Occasional.</i>			Engineering Design I: PR: EML 3500, EML 3701 and EML 3303C. Application of the design process in the team solution of a state-of-the-art problem. Aerospace, mechanical, thermo-fluid, or material problems are considered. <i>Fall, Spring.</i> M&S fee: \$15.00		
						EML 4502C	ECS-MMAE	3(1,6)
						Engineering Design II: PR: EML 4501C. Continuation of the design process in the team building and testing of a prototype. A test plan and a test report are completed. <i>Fall, Spring.</i> M&S fee: \$45.00		

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- EML 4535C ECS-MMAE 3(2,3)**
CAD/CAM: PR: EGN 3343, EML 3034C, and EGM 3601; CR EAS 4200 or EML 3500. CAD/CAM/FEM computational technology. Basic concepts. Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software. *Fall, Spring.* M&S fee: \$15.00
- EML 4600 ECS-MMAE 3(3,0)**
HVAC Systems Engineering: PR: EML 3101 and EML 4142. Heating, ventilation, air-conditioning, and refrigeration principles and systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems. *Fall.*
- EML 4703 ECS-MMAE 3(3,0)**
Fluid Mechanics II: PR: EML 3701. Continuation of Fluid Mechanics I. External flows, fluid machinery, compressible flows, design projects. *Fall.*
- EML 4804C ECS-MMAE 3(2,3)**
Digital Control in Mechatronics: PR: EML 4312C and EML 3303C. Discrete microprocessor control of mechatronics dynamic systems using state-space representation, digital controllers, design for mechatronic applications. *Spring.* M&S fee: \$15.00
- EML 5060 ECS-MMAE 3(3,0)**
Mathematical Methods in Mechanical, Materials and Aerospace Engineering: PR: 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.*
- EML 5066 ECS-MMAE 3(3,0)**
Computational Methods in Mechanical, Materials and Aerospace Engineering: PR: 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.*
- EML 5105 ECS-MMAE 3(3,0)**
Gas Kinetics and Statistical Thermodynamics: PR: 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.*
- EML 5131 ECS-MMAE 3(3,0)**
Combustion Phenomena: PR: EML 4703, EML 3101. Physical and chemical aspects of combustion phenomena. Rate processes, chemical kinetics, structure, propagation and stability of premixed and diffusion flames. *Occasional.*
- EML 5152 ECS-MMAE 3(3,0)**
Intermediate Heat Transfer: PR: EML 4142, EML 5713, 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.*
- EML 5211 ECS-MMAE 3(3,0)**
Continuum Mechanics: PR: EML 3500 or EML 4703 or EAS 4200 or C.I. Introduction to tensors; deformation and strain; stress; balance laws, applications in Newtonian fluid dynamics and isotropic linear elasticity. *Fall.*
- EML 5224 ECS-MMAE 3(3,0)**
Acoustics: PR: EML 4220. CR: EML 5060. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers. *Occasional.*
- EML 5228C ECS-MMAE 3(3,0)**
Modal Analysis: PR: EML 3303C, EML 4220, and EML 5060. Theoretical basis. Measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures. Modeling. *Occasional.*
- EML 5237 ECS-MMAE 3(3,0)**
Intermediate Mechanics of Materials: PR: EML 3500, EML 5060. Elements of elasticity. Failure theories. Bending and torsion. Thin plates. Energy principles. Thick-walled cylinders. Applications to design. *Occasional.*
- EML 5245 ECS-MMAE 3(3,0)**
Tribology: PR: EGN 3365, EGN 3331 and EML 3701. Principles of fluid film lubrication (liquid and gas, journal and thrust bearings), contact mechanics (rolling element bearings), design of bearings and load bearing surfaces, friction and wear of materials, tribotesting. *Occasional.*
- EML 5271 ECS-MMAE 3(3,0)**
Intermediate Dynamics: PR: EML 3321. Dynamics of particles, rigid bodies, and distributed mass systems. Hamilton's principle. Lagrange's equations. Numerical methods. Mechanisms. *Occasional.*
- EML 5290 ECS-MMAE 3(3,0)**
Introduction to MEMS & Micromachining: PR: Graduate standing or C.I. Introduction of Micro-Electro-Mechanical-Systems (MEMS) and micromachining (microfabrication) methods. Etching and etching mask. Basics of silicon micromachining 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.*
- EML 5291 ECS-MMAE 3(3,0)**
MEMS Materials: PR: EML 5060, EML 5211, 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.*
- EML 5292 ECS-MMAE 3(3,0)**
Fundamental Phenomenon and Scaling laws in Miniature Engineering Systems: PR: EML 5060, EML 5211, or C.I. Introduction to meso-, micro-, and nano-scales, and related terminology, constitutive relationships at these scales and how these relationships affect the behavior and performance of systems. Effect of miniaturization on a few common engineering systems. *Odd Fall.*
- EML 5311 ECS-MMAE 3(3,0)**
System Control: PR: EML 4312C. CR: EML 5060. Modern control theory for linear and non-linear systems; controllability and observability. Linear state feedback and state estimators, compensator design. *Occasional.*
- EML 5402 ECS-MMAE 3(3,0)**
Turbomachinery: PR: 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.*
- EML 5532C ECS-MMAE 3(2,3)**
Computer-Aided Design for Manufacture: PR: 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. *Even Fall, Spring.* M&S fee: \$15.00
- EML 5546 ECS-MMAE 3(3,0)**
Engineering Design with Composite Materials: PR: 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.*
- EML 5572 ECS-MMAE 3(3,0)**
Probabilistic Methods in Mechanical Design: PR: EML 3500, STA 3032. Uncertainty modeling in design. Use of probabilistic mathematics to assess strength, stiffness, toughness, and stability. Applications. *Occasional.*
- EML 5587C ECS-MMAE 3(2,3)**
Mechanics of Biostructures I: PR: Graduate standing or C.I. Part I of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. *Occasional.*
- EML 5588C ECS-MMAE 3(2,3)**
Mechanics of Biostructures II: PR: EML 5587C. Part II of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. *Occasional.*
- EML 5605 ECS-MMAE 3(3,0)**
Applied HVAC Engineering: PR: EML 4600. Applications of HVAC systems design with the objective of optimizing energy efficiency, humidity control, ventilation and indoor air quality. May be repeated for credit. *Occasional.*
- EML 5606 ECS-MMAE 3(3,0)**
HVAC Systems Engineering: PR: EML 3101, EML 4142, EML 3034C. Heating, ventilation, air-conditions and refrigeration principles, system design and analysis. May be repeated for credit. *Odd Fall.*
- EML 5713 ECS-MMAE 3(3,0)**
Intermediate Fluid Mechanics: PR: EML 4703. CR: EML 5060. Fluid kinematics; conservation equations; Navier-Stokes equations; boundary layer flow, inviscid flow, circulation and vorticity; low Reynolds number flow; turbulence. *Occasional.*
- EML 5760 ECS-MMAE 3(3,0)**
Biofluid Mechanics: PR: MAP 2302, EML 3701, EML 4703. Analysis of biomedical and bioengineering systems using principles of transport phenomena. Governing equations of fluid flow, circulatory systems blood flow, macro and microcirculation, and blood rheology. *Occasional.*
- EML 5936 ECS-MMAE 1(1,0)**
Mechanical, Materials, & Aerospace Engineering Graduate Seminar: MMAE graduate student seminar. Graded S/U. *Occasional.*
- EMR 4011 ED-CFCS 3(3,0)**
Intro to Mental Retardation: Nature and needs of mentally handicapped students with emphasis on etiology, prevention, identification, and application of effective practices and recognition of trends and standards. *Occasional.*
- EMR 4362 ED-CFCS 4(4,0)**
Teaching Students with Mental Handicaps: PR: EEX 2010. Relationship between the characteristics of students with mental handicaps and specialized instructional materials, strategies and curriculum. *Occasional.*
- EMR 4372 ED-CFCS 3(3,0)**
Curriculum Method and Materials for Retarded Persons: PR: Senior standing. Development of highly specialized techniques, curriculum and materials to be used with students with mental retardation. *Occasional.*
- ENC 1101 CAH-ENG 3(3,0)**
Composition I: Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. The "NC" grading policy applies to this course. *Fall, Spring.*

<p>ENC 1101H CAH-ENG 3(3,0) Honors Freshman Composition I: PR: Score of 60+ on TSWE of SAT or C.I. and permission of Honors. Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. The "NC" grading policy applies to this course. Honors-level content. <i>Fall, Spring.</i></p>	<p>ENC 3310 CAH-ENG 3(3,0) Magazine Writing I: PR: Grade of C (2.0) or better required in ENC 1102. Intensive practice in description narration, exposition and argumentation: control of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing. <i>Fall, Spring.</i></p>	<p>ENC 4295 CAH-ENG 3(3,0) Capstone Experience in Technical Writing: PR: ENC 4294. Designing, writing, and illustrating a technical communication product. Development of a service-learning or client based product. <i>Fall, Spring.</i> M&S fee: \$10.00</p>
<p>ENC 1102 CAH-ENG 3(3,0) Composition II: PR: ENC 1101 with a grade of "C-" or better. Focus on extensive research in analytical and argumentative writing based on a variety of readings from the humanities. Emphasis on developing critical thinking and diversity of perspective. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>ENC 3311 CAH-ENG 3(3,0) Advanced Expository Writing: PR: Grade of C (2.0) or better required in ENC 1102. Practice of expository writing directed to general reader. <i>Fall, Spring.</i></p>	<p>ENC 4312 CAH-ENG 3(3,0) Theory & Practice Persuasive Writing: PR: ENC 1102. A study of the theory and practice of persuasion, including logical emotional and ethical appeals. <i>Occasional.</i></p>
<p>ENC 1102H CAH-ENG 3(3,0) Honors Freshman Composition II: PR: ENC 1101H with a grade of "C-" or better or C.I. and permission of Honors. Same as ENC 1102, with honors-level content. Note on Freshman English Program: ENC 1101 and 1102 must be taken before enrolling in any English course numbered above 1102. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>ENC 3905 CAH-ENG 3(3,0) Directed experience in Writing: PR: ENC 1102, C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit. <i>Occasional.</i></p>	<p>ENC 4313 CAH-ENG 3(3,0) Research Writing: PR: ENC 1102, Junior standing, and C.I. Writing correspondence, instructions, proposals, and informal and formal reports in various disciplines. <i>Occasional.</i></p>
<p>ENC 2127 CAH-ENG 3(3,0) Grammar and Composition: A systematic study of grammar and mechanics to improve editing for clarity and accuracy in writing. <i>Occasional.</i></p>	<p>ENC 3942 CAH-ENG 3(3,0) Journal Writing Practicum: An interdisciplinary practicum in journal writing as a literary genre and a means of self-expansion. <i>Occasional.</i></p>	<p>ENC 4360 CAH-ENG 3(3,0) Nature Writing: PR: CRW 3013 or C.I. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing. <i>Occasional.</i></p>
<p>ENC 2210 CAH-ENG 3(3,0) Writing for the Business Professional: PR: ENC 1102, Junior standing or C.I. Emphasis on clear expository writing of memoranda, reports, and articles in the student's declared field of business. <i>Occasional.</i></p>	<p>ENC 4215 CAH-ENG 3(3,0) Technical Publication and Project Management: PR: ENC 3211 or ENC 3241 or C.I. New publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction. Introduction of graphics: style, format, layout, and board-work. <i>Spring.</i> M&S fee: \$10.00</p>	<p>ENC 4414 CAH-ENG 3(3,0) Writing and Hypertext: PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241. Theories of electronic literacy and information to develop a more critical sensibility regarding hypertext. <i>Occasional.</i></p>
<p>ENC 2411C CAH-ENG 3(2,1) Digital Literacy for the Liberal Arts: Designed to help students better understand how computer technologies have shaped our culture and ourselves; to become critical consumers of technology; to acquire a critical sensibility regarding the manner in which technology affects and is affected by texts. <i>Occasional.</i></p>	<p>ENC 4218 CAH-ENG 3(3,0) The Visual in Technical Documentation: PR: ENC 4293. Relevant theories of the visual and their application to technical communication practice. <i>Fall.</i> M&S fee: \$10.00</p>	<p>ENC 4415 CAH-ENG 3(3,0) Digital Rhetorics and The Modern Dialectic: PR: ENC 1102. This online course explores the development of digital/online rhetorics through a close reading and analysis of formative rhetorical texts, modern American fiction and films. <i>Fall, Spring.</i></p>
<p>ENC 3211 CAH-ENG 3(3,0) Theory and Practice of Technical Writing: PR: ENC 1102, Junior standing, or C.I. Exploring definitions and theoretical foundations in technical writing field, and the roles of writers in industry. <i>Fall, Spring.</i></p>	<p>ENC 4262 CAH-ENG 3(3,0) International Technical Communication: PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241 or C.I. International issues in the field of technical communication including internationalizing documents, user interface design, international collaboration, and rhetorical and logistical challenges. <i>Occasional.</i></p>	<p>ENC 5216 CAH-ENG 3(3,0) Editing Professional Writing: PR: Graduate status or senior standing or C.I. The study of major issues in editing, including levels of edit, grammar and mechanics, visuals, style, and the impact of technology. <i>Fall, Spring.</i></p>
<p>ENC 3211H CAH-ENG 3(3,0) Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies. <i>Occasional.</i></p>	<p>ENC 4265 CAH-ENG 3(3,0) Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. Creating different kinds of software manuals or online help systems for the computer industry. <i>Occasional.</i></p>	<p>ENC 5225 CAH-ENG 3(3,0) Theory and Practice of Document Usability: PR: Graduate status or senior standing or C.I. Presents theory and practice of how document usability is assessed and improved. <i>Occasional.</i></p>
<p>ENC 3241 CAH-ENG 3(3,0) Writing for the Technical Professional: PR: ENC 1102, Junior standing, or C.I. Writing effective correspondence, instructions, proposals, and informal and formal reports. <i>Fall, Spring.</i></p>	<p>ENC 4275 CAH-ENG 3(3,0) Writing/Consulting: theory & practice: PR: C.I. Theory and practice of assessing and responding to writing from the standpoint of a collaborator, as opposed to evaluator. <i>Occasional.</i></p>	<p>ENC 5237 CAH-ENG 3(3,0) Writing for the Business Professional: PR: 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. <i>Fall, Spring.</i></p>
<p>ENC 3241H CAH-ENG 3(3,0) Honors Writing for the Technical Professional: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience. <i>Occasional.</i></p>	<p>ENC 4280 CAH-ENG 3(3,0) Technical Writing Style: PR: ENC 3211 or ENC 3241 or C.I. Strategies for understanding and improving writing styles, particularly for a variety of technical writing genres. <i>Spring.</i></p>	<p>ENC 5245 CAH-ENG 3(3,0) Teaching Professional Writing: PR: Graduate status or senior standing or C.I. Prepares students to determine writing needs of professional discourse communities, analyze those needs, and design in-house or freelance writing programs to address those needs. <i>Occasional.</i></p>
<p>ENC 3250 CAH-ENG 3(3,0) Professional Writing: PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on composition of reports, proposals, letters, and memos. <i>Fall, Spring.</i></p>	<p>ENC 4290 CAH-ENG 3(3,0) Usability Testing for Technical Communication: PR: ENC 4293 or C.I. Usability theory and techniques for evaluating manuals, online documentation, and other technical communication genres. <i>Occasional.</i></p>	<p>ENC 5276 CAH-ENG 3(3,0) Writing/Consulting: Theory & Practice: PR: Graduate status or senior standing or C.I. The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator). <i>Occasional.</i></p>
<p>ENC 3250 CAH-ENG 3(3,0) Professional Writing: PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on composition of reports, proposals, letters, and memos. <i>Fall, Spring.</i></p>	<p>ENC 4293 CAH-ENG 3(3,0) Documentation and the Collaborative Process: PR: ENC 3211 or ENC 3241. Development of a book-length project from idea to final published product. Examples may include style manuals, policies and procedures, and training manuals. <i>Fall, Spring.</i></p>	<p>ENC 5291 CAH-ENG 3(3,0) Developing Professional Writing Projects: PR: Graduate status or C.I. Developing Professional Writing is a course in which students learn the basics of planning writing projects, including scheduling, budgeting, collaborative writing, production, and problem solving. <i>Occasional.</i></p>
<p>ENC 4294 CAH-ENG 3(3,0) Documentation and Client-Based Collaboration: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student's particular field. Should be taken concurrently with ENC 4215. <i>Fall, Spring.</i> M&S fee: \$10.00</p>	<p>ENC 4294 CAH-ENG 3(3,0) Documentation and Client-Based Collaboration: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student's particular field. Should be taken concurrently with ENC 4215. <i>Fall, Spring.</i> M&S fee: \$10.00</p>	<p>ENC 5337 CAH-ENG 3(3,0) Modern Rhetorical Theory: PR: Graduate status or senior standing or C.I. With special attention to the rhetor-audience relationship, the course studies history and practice of modern rhetorical theory. <i>Spring.</i></p>

UCF Courses and Descriptions

ENC 5705	CAH-ENG	3(2,1)	ENC 4220	CAH-ENG	3(3,0)	ENL 5347	CAH-ENG	3(3,0)
Theory and Practice in Composition: PR: Graduate status or senior standing or C.I. Intensive study of theories of composition, with practical experience in the writing laboratory and in composition classes. <i>Spring</i> .			English Renaissance Poetry and Prose: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly & others. <i>Occasional</i> .			The Age of Milton: PR: Graduate status or senior standing or C.I. Emphasis on the non-dramatic works of John Milton. Selections from the non-dramatic works of other 17th-century figures. <i>Occasional</i> .		
ENC 5745	CAH-ENG	3(3,0)	ENL 4230	CAH-ENG	3(3,0)	ENV 3001	ECS-CEE	3(3,0)
Teaching Practicum: PR: ENC 5705, graduate status or senior standing, or C.I. To supplement and deepen theoretical and practical experiences during their first teaching semester, GTA's will participate in staff development and individual conferences with their mentors. <i>Occasional</i> .			18th Century Studies: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Reading, analysis, and discussion of literature in English: 1660-1880. May be repeated for credit. <i>Occasional</i> .			Introduction to Environmental Engineering: PR: CHM 2046 and MAC 2312. Introduction to concepts and terminology of environmental engineering. Stresses material and energy balances. Covers air, water and land pollution. May be repeated for credit. <i>Fall, Spring</i> .		
ENC 5930	CAH-ENG	3(3,0)	ENL 4240	CAH-ENG	3(3,0)	ENV 4008C	ECS-CEE	3(2,2)
Current Topics in Professional Writing: PR: 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. <i>Occasional</i> .			English Romantic Writers: PR: Grade of C (2.0) or better required in ENC 1101, ENC 1102 and ENG 3014. Study of English poets and essayists of the romantic period, such as Wordsworth, Coleridge, Hazlitt, Lamb, Byron, Shelley and Keats. <i>Occasional</i> .			Environmental Engineering Capstone Design: PR: one of - ENV 4562C, ENV 4300C, ENV 4122C, or CWR 4812C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. <i>Occasional</i> .		
ENG 3010	CAH-ENG	3(3,0)	ENL 4253	CAH-ENG	3(3,0)	ENV 4112C	ECS-CEE	3(2,2)
Practical Criticism: PR: Grade of C (2.0) or better required in ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism. <i>Occasional</i> .			The Victorian Age: Poetry: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossettis, and Emily Bronte. <i>Occasional</i> .			Air Pollution Measurements Lab: Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods. <i>Occasional</i> . M&S fee: \$30.00		
ENG 3014	CAH-ENG	3(3,0)	ENL 4262	CAH-ENG	3(3,0)	ENV 4120	ECS-CEE	3(3,0)
Theories and Techniques of Literature Study: PR: Junior standing, or C.I., and C (2.0) or better required in ENC 1102. Techniques of analysis, theories of interpretation, and application of critical approaches to selected works. <i>Fall, Spring</i> .			Nineteenth Century British Prose: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Essays and fiction of the nineteenth century. <i>Occasional</i> .			Air Pollution Control: PR: EGN 3343 and CWR 3201 and ENV 3001. Air resources management, engineering design, and operation of air pollution control systems. <i>Fall</i> .		
ENG 3073	CAH-ENG	3(3,0)	ENL 4273	CAH-ENG	3(3,0)	ENV 4122C	ECS-CEE	3(2,2)
Cultural Studies Literature: PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce "cultural studies.". <i>Occasional</i> .			Modern British Literature: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Major writers of modern British literature. <i>Occasional</i> .			Air Pollution Control Design: PR: ENV 4120. Project course on design of air pollution control equipment and systems. <i>Occasional</i> . M&S fee: \$15.00		
ENG 4114	CAH-ENG	3(3,0)	ENL 4311	CAH-ENG	3(3,0)	ENV 4300C	ECS-CEE	3(2,2)
Literature and Film: PR: ENC 1102 and ENG 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations. <i>Occasional</i> .			Chaucer: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works. <i>Occasional</i> .			Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill. <i>Occasional</i> . M&S fee: \$15.00		
ENG 5009	CAH-ENG	3(3,0)	ENL 4333	CAH-ENG	3(3,0)	ENV 4341	ECS-CEE	3(3,0)
Methods of Bibliography and Research: PR: Graduate status or senior standing or C.I. Bibliographical, library and systematic approaches to research at the graduate level in language and literature. <i>Fall</i> .			Shakespeare Studies: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Reading, analysis, and discussion of Shakespeare's plays. May be repeated for credit. <i>Occasional</i> .			Solid Waste Management: PR: ENV 3001 or C.I. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes. <i>Fall</i> .		
ENG 5018	CAH-ENG	3(3,0)	ENL 4341	CAH-ENG	3(3,0)	ENV 4432	ECS-CEE	3(3,0)
Literary Criticism: PR: Graduate status or senior standing or C.I. Historical survey of major critics from classical antiquity to the modern era. <i>Spring</i> .			Milton and His Age: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes, shorter poems and selected prose. <i>Occasional</i> .			Potable Water Treatment: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of potable water treatment facilities. May be repeated for credit. <i>Occasional</i> .		
ENL 2012	CAH-ENG	3(3,0)	ENL 5006	CAH-ENG	3(3,0)	ENV 4531	ECS-CEE	3(3,0)
English Literature I: PR: Grade of C (2.0) or better required in ENC 1102. Beowulf to 1798. <i>Fall, Spring</i> .			British Literature: Medieval to Modern: PR: Graduate status or senior standing or C.I. Survey of British Literature from beginnings to present, with instruction in the fundamentals of prose, poetry, and drama. Emphasis on Literature's social and historical contexts. <i>Occasional</i> .			Wastewater Treatment Processes: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of wastewater treatment facilities. May be repeated for credit. <i>Occasional</i> .		
ENL 2022	CAH-ENG	3(3,0)	ENL 5237	CAH-ENG	3(3,0)	ENV 4561	ECS-CEE	4(4,0)
English Literature II: PR: Grade of C (2.0) or better required in ENC 1102. From 1798 to 1914. <i>Fall, Spring</i> .			Eighteenth Century Studies: PR: Graduate status or senior standing or C.I. Reading, analysis, and discussion of literature in English:1660-1880. <i>Occasional</i> .			Environmental Engineering - Process Design: PR: ENV 3001 and CWR 3201. Water treatment and wastewater treatment design considerations with effluent and sludge handling, treatment, and disposal. <i>Fall, Spring</i> .		
ENL 3951	CAH-ENG	3(3,0)	ENL 5250	CAH-ENG	3(3,0)	ENV 4562C	ECS-CEE	3(2,2)
Orlando Shakespeare Festival: PR: ENC 1102. Involvement in theory and practice of Shakespeare's art by performance-oriented study and participation in the Orlando Shakespeare Festival's pre-season activities and productions. <i>Occasional</i> .			The Victorian Age: Poetry: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others. <i>Occasional</i> .			Environmental Engineering Systems Design: PR: ENV 4561, EES 4202C. Project course on design of water and wastewater treatment plants. <i>Spring</i> . M&S fee: \$15.00		
ENL 3951H	CAH-ENG	3(3,0)	ENL 5256	CAH-ENG	3(3,0)	ENV 4563	ECS-CEE	3(3,0)
Orlando Shakespeare Festival Honors: PR: ENC 1102 and permission of Honors. Honors theory and practice of Shakespeare's art by performance-oriented study and participation in the Orlando Shakespeare Festival's pre-season activities and productions. <i>Occasional</i> .			Victorian Literature: PR: Graduate status or senior standing or C.I. A study of the major prose works and selected poetry of British Victorian writers. <i>Occasional</i> .			Environmental Control Systems: PR: EGN 3343, EGN 3373 and CWR 3201 CR: ENV 4561. Analysis and design of process control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration. <i>Occasional</i> .		
ENL 4101	CAH-ENG	3(3,0)	ENL 5335	CAH-ENG	3(3,0)			
English Novel: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Analysis of major English novelists. <i>Occasional</i> .			Studies in Shakespeare: PR: Graduate status or senior standing or C.I. A selection of representative plays, with emphasis on Shakespeare's development as an artist: aesthetics of dramatic literature. <i>Occasional</i> .					

ENV 5071	ECS-CEE	3(3,0)	ESE 3940	ED-TLP	3-16(0,3-16)	ESI 5306	ECS-IEMS	3(3,0)
Environmental Analysis of Transportation Systems: PR: CWR 3201; ENV 3001. Prediction and abatement of pollution from transportation sources. Analysis techniques and environment laws. <i>Occasional.</i>			Internship I — Secondary: PR: EDG 4323 and C.I. Student teaching in a secondary school under the supervision of a certified classroom teacher. Graded S/U. <i>Occasional.</i>			Operations Research: PR: STA 3032. Methods of operations research, including formulation for models and derivation of solutions: linear programming, network models queuing theory, simulation, and nonlinear optimization techniques. <i>Fall.</i>		
ENV 5116C	ECS-CEE	3(2,3)	ESE 4942	ED-TLP	1(1,0)	ESI 5359	ECS-IEMS	3(3,0)
Air Pollution Monitoring: PR: C.I. Air Pollution sampling techniques, equipment, and monitor siting. Emphasis on theory and direct applications in air pollution monitoring. <i>Occasional.</i> M&S fee: \$15.00			Internship II Seminar: PR: Internship I in the specific discipline; CR: Internship II in the specific discipline. Culminating seminar emphasizing current classroom management and assessment issues, as they relate to teaching in the secondary grades. <i>Fall, Spring.</i>			Risk Assessment and Management: PR: 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. <i>Occasional.</i>		
ENV 5334	ECS-CEE	3(3,0)	ESE 4943	ED-TLP	7-12(0,35)	ESI 5419C	ECS-IEMS	3(2,2)
Characterization of Hazardous Waste Sites: PR: CWR 4101C and ENV 4341 or C.I. Practical and comprehensive methods of hazardous waste site characterization to determine site properties, contamination type, magnitude and risk, and remedial actions. <i>Occasional.</i>			Internship II — Secondary: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars. Graded S/U or Letter grade. <i>Occasional.</i>			Engineering Applications of Linear and Nonlinear Optimization: PR: ESI 4312 or ESI 5306. Course covers linear and nonlinear optimization applications in production planning, staffing, engineering design, distribution networks, and other engineering areas. Focuses on practicing OR analysts. <i>Odd Fall.</i> M&S fee: \$45.00		
ENV 5335	ECS-CEE	3(3,0)	ESE 5214	ED-TLP	3(3,0)	ESI 5531	ECS-IEMS	3(3,0)
Hazardous Waste Management: PR: ENV 3001 or C.I. Engineering planning and analysis associated with the handling, storage, treatment, transportation, and disposal of hazardous wastes. <i>Occasional.</i>			Secondary School Curriculum Improvement I: PR: Regular Certificate or C.I. Secondary School self studies for curriculum projects, accreditation reports, or staff development. <i>Occasional.</i>			Discrete Systems Simulation: PR: STA 3032. Methods for performing discrete systems simulation, including network modeling, will be treated. <i>Spring.</i>		
ENV 5356	ECS-CEE	3(3,0)	ESI 4221	ECS-IEMS	3(3,0)	EST 3211	ECS-ENT	3(3,0)
Solid Waste Management: PR: ENV 3001. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid wastes. <i>Fall.</i>			Empirical Methods for Industrial Engineering: PR: STA 3032. Application of empirical methods for industrial engineering problem solving. <i>Spring.</i>			Wave Photonics: PR: EST 3222, and EET majors. Wave properties of light, interaction with different media, and photonics technologies and systems based on wave nature of light. <i>Spring.</i>		
ENV 5410	ECS-CEE	3(3,0)	ESI 4234	ECS-IEMS	3(3,0)	EST 3213	ECS-ENT	3(3,0)
Drinking Water Treatment: PR: ENV 4561. Drinking water treatment using existing and newly developed processes. Fe, Mn, As, NO ₃ , DBP ₃ , SOCs and other contaminants using oxidation, membranes, ion exchange, precipitation, sorption, and other processes. <i>Occasional.</i>			Quality Engineering: PR: STA 3032. Basic concepts and techniques of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering. <i>Fall.</i>			Photonics Simulation: PR: EST 3222. The behavior of light in standard optical systems consisting of both refractive and reflective light. Begin with general optic principles and end with system design. Not open to Physics majors or minors. <i>Fall.</i>		
ENV 5505	ECS-CEE	3(3,0)	ESI 4312	ECS-IEMS	3(3,0)	EST 3222	ECS-ENT	3(3,0)
Sludge Management Operations in Environmental Engineering: PR: ENV 4561. Theory and design of sludge management operations and processes in environmental engineering, including stabilization dewatering and ultimate disposal. <i>Occasional.</i>			Operations Research: PR: STA 3032. Introduction to linear, non-linear, and dynamic programming. Decision analysis, random processes, and queuing. Course covers theory through application and implementation of results. <i>Fall.</i>			Photonics Technology: PR: PHY 2053C, PHY 2054C, MAP 3401, MAC 2312, and MAC 2253 or MAC 2311. Course will introduce engineering technology students to the field of photonics. Light properties, optics, lasers, systems. <i>Fall.</i>		
ENV 5517	ECS-CEE	3(3,0)	ESI 4321	ECS-IEMS	3(3,0)	EST 3543C	ECS-ENT	3(2,2)
Engineering Chemical and Biological Processes: CR: 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. <i>Fall.</i>			Quantitative Techniques in Industrial Engineering: PR: ESI 4312. Extension of ESI 4312, with primary emphasis on Operations Research and statistical applications to industrial engineering problems. <i>Even Fall.</i>			Programmable Logic Applications and Device Integration: PR: MAC 1105, EET 3085C, or equivalent. Builds on knowledge of logic fundamentals programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocol. <i>Fall, Spring.</i>		
ENV 5636	ECS-CEE	3(3,0)	ESI 4523C	ECS-IEMS	3(2,3)	EST 4225	ECS-ENT	3(3,0)
Environmental and Water Resources Systems Analysis: PR: 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. <i>Occasional.</i>			Systems Simulation: PR: STA 3032, EGN 3211 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used. <i>Spring.</i> M&S fee: \$20.00			Manufacturing of Photonics: PR: EST 3222. Manufacturing processes and practices of photonic devices and systems. Tolerance studies, manufacturing lines, tests, measurements, and other topics related to low and high volume photonics manufacturing. <i>Fall.</i>		
ENV 4004C	COS-BIOL	4(2,6)	ESI 4628C	ECS-IEMS	3(2,3)	EST 4227	ECS-ENT	3(3,0)
General Entomology: PR: BSC 2010C and BSC 2011C, or C.I. Biology of insects: identification, taxonomy, physiology, behavior, and ecology. <i>Occasional.</i> M&S fee: \$15.00			Industrial Engineering Applications of Computers: PR: EGN 3211 or high level programming language. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises. <i>Fall.</i> M&S fee: \$20.00			Photonic Sensors and Devices: PR: EST 3213, EST 3211. How light is converted to electrons to incorporate an electronic system. Standard means of detecting light such as photodiodes and charge-coupled devices will be covered. <i>Spring.</i>		
ENV 5006C	COS-BIOL	4(2,6)	ESI 5219	ECS-IEMS	3(3,0)	EST 4236	ECS-ENT	3(3,0)
Entomology: PR: BSC 2010C and BSC 2011C and graduate standing or C.I. Morphology, physiology, ontogeny, behavior, ecology and population biology of insects. <i>Occasional.</i> M&S fee: \$40.00			Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, non-parametric stats and ANOVA. <i>Fall, Spring.</i>			Laser Systems Technology: PR: EST 3222. The theory of light amplification using gas, solid-state, and semi-conductor lasers. <i>Fall.</i>		
EPH 5335	ED-CFCS	3(3,0)	ESI 5227	ECS-IEMS	3(3,0)	EST 4256	ECS-ENT	3(3,0)
Physical and Sociological Implications of Handicapping Conditions: 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. <i>Occasional.</i>			Total Quality Improvement: PR: 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. <i>Odd Fall.</i>			Photonics Communication: PR: EST 4227, EST 4236. The use of light as media for transmission of information. Modulation techniques, light transmission through different mediums, and detection and demodulation. <i>Spring.</i>		
			ESI 5236	ECS-IEMS	3(3,0)			
			Reliability Engineering: PR: 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. <i>Fall.</i>					

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EST 4259C	ECS-ENT	3(1,4)	ETI 3116	ECS-ENT	3(3,0)	ETI 4480C	ECS-ENT	3(2,2)
Photonic Systems: PR: Engineering Technology senior within 18 hours of graduation, C.I. Senior design project course for the BSEET Photonics concentration. <i>Spring.</i>			Applied Engineering Quality Assurance: PR: STA 2014C or STA 2023. Fundamentals of industrial quality control. Technical specifications, measurements standards, inspection, and gaging. Process control techniques. <i>Fall.</i>			Applied Robotics: PR: EST 3543C. Robotics programming for multifunction part manipulation and motions with stepper and servo-motor robot applications in laboratory work. <i>Occasional.</i>		
EST 4502C	ECS-ENT	4(3,2)	ETI 3418C	ECS-ENT	3(2,2)	ETI 4635	ECS-ENT	3(3,0)
Metrology and Instrumentation: PR: ETG 3541, EET 3085C, or equivalent. An introduction to the basic concepts and terminology of metrology and instrumentation. Theory, procedures and techniques essential to industrial measurement and laboratory practice are covered. <i>Spring.</i> M&S fee: \$10.00			Computer Numerical Controls - Machining Applications: PR: ETD 3350C. Theory of methods and concepts for machining, computer numerical controls/programs, types of operations, cutting tools, machine tools, and electrical discharge machines. May be repeated for credit. <i>Occasional.</i>			Technical Administration: PR: Junior Standing. Techniques of applying management principles to professional positions held by Engineering Technologists. Management functions of planning, organizing, motivating, and controlling, production, sales, and service. <i>Fall, Spring.</i>		
ETC 4206	ECS-ENT	3(3,0)	ETI 3421	ECS-ENT	3(3,0)	ETI 4640	ECS-ENT	3(3,0)
Construction Estimating: PR: MAC 1114, & EGN 1111C or equivalent & ETC 4241C. Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits. Software packages are utilized. <i>Spring.</i>			Materials and Processes: PR: MAC 1105 and MAC 1114 or equivalent; Chemistry. A study of fundamental properties of materials. Current industrial practices in founding, forming, joining and shaping processes. <i>Fall.</i>			Operations Management for Technologists: PR: ETI 4635. Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MTM are covered. <i>Fall.</i>		
ETC 4241C	ECS-ENT	3(2,2)	ETI 3651C	ECS-ENT	3(2,2)	ETI 4661C	ECS-ENT	3(2,2)
Construction Materials and Methods: CR: ETG 3541. Construction principles, details, materials and methods used as related to the construction of buildings. <i>Fall.</i>			Computer Applications: PR: MAC 1105, and Junior standing. Standard engineering software packages found in most companies, institutions, and organizations to solve engineering problems. <i>Fall, Spring.</i>			Applied Facilities Planning and Design: PR: ETI 3421, engineering drawing and senior standing. The design of manufacturing facilities and material handling systems. <i>Occasional.</i>		
ETC 4242	ECS-ENT	3(3,0)	ETI 3671	ECS-ENT	3(3,0)	ETI 4700	ECS-ENT	3(3,0)
Construction Contracts and Specifications: The role of construction contracts, architectural specifications, product specifications, industry standards and building codes in the process of building construction. <i>Spring.</i>			Technical Economic Analysis: PR: MAC 1105 or equivalent. Analysis of cost elements in technical operations. Basis for comparison of alternatives. <i>Spring.</i>			Occupational Safety: PR: Junior standing. Accident prevention and the operation of an industrial safety program. Basic requirements of the Occupational Safety and Health Act standards. <i>Occasional.</i>		
ETC 4243	ECS-ENT	4(4,0)	ETI 3690	ECS-ENT	3(3,0)	ETI 4835	ECS-ENT	3(3,0)
Building Systems: PR: PHY 2053C, EET 3085C, or equivalent. Mechanical, electrical and electronic equipment and systems used in commercial/multi-story buildings. Fundamentals of air conditioning, lighting, and control systems are covered. <i>Even Spring.</i>			Technical Sales: PR: Junior standing or C.I. Application of technical knowledge to sales and service. Relationship of technical sales organization to production, customers, and competitors. <i>Even Spring.</i>			Rocket Propulsion Technology: PR: PHY 2053C, Calculus I, II, CAD. Principles of rocketry; solid, liquid and hybrid rocket stages; specific impulse computations; fuel and thrust computations; nose cone, and nozzle designs; ignition mechanisms. <i>Fall.</i>		
ETC 4414C	ECS-ENT	3(2,2)	ETI 4150	ECS-ENT	3(3,0)	ETI 4836	ECS-ENT	3(3,0)
Applied Structural Design I: PR: ETG 3533C. Introduction to indeterminate analysis. Design of steel members, components and connections. Current code and specification requirements. <i>Even Fall.</i>			Spacecraft Quality Assurance And Testing: PR: PHY 2053C. Quality assurance, reliability, and testing of space hardware and software, with the examination of designing, manufacturing, testing, and operation. <i>Occasional.</i>			Space Systems Technology: PR: PHY 2053C. Applied space technology, design of space systems, space environment, flight dynamics, atmospheric drag, power supply, communications technology. May be repeated for credit. <i>Fall.</i>		
ETC 4415C	ECS-ENT	3(2,2)	ETI 4186	ECS-ENT	3(3,0)	ETI 4837C	ECS-ENT	3(2,2)
Applied Structural Design II: PR: ETG 3533C. Strength design of reinforced concrete members, foundations, slabs, and walls. Current code and specification requirements. <i>Odd Fall.</i>			Applied Reliability: PR: ETI 3116. Practical application of reliability concepts and analysis applicable to the design, production and logistics phases of systems and system components. <i>Odd Spring.</i>			Technology of Small Space Payloads: PR: ETI 4836 and high level programming lang. Principles of technology in the design of small rocket and microsatellite payloads; power requirements; telemetry requirements of data transmission; thermal control; shock and vibration tests. <i>Occasional.</i> M&S fee: \$34.60		
ETD 3350C	ECS-ENT	3(2,2)	ETI 4205	ECS-ENT	3(3,0)	ETI 4838	ECS-ENT	3(3,0)
Applied CADD: PR: Engineering Drawing and some CADD background. This course in computer-aided drafting/design provides the student with the opportunity to approach detailed and intricate drafting/design problems from a computer perspective. <i>Fall.</i>			Applied Logistics: PR: ETI 3116 or C.I. Introduction to logistics. Emphasis on practical applications. Includes systems engineering, cost/systems effectiveness, reliability, maintainability, system functional analysis, logistic support analysis, life cycle cost analysis. <i>Fall.</i>			Flight Dynamics Technology: PR: PHY 2053C, Calculus I, II, CAD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analysis; orbital maneuvering; atmospheric re entry; launch windows; rocket apogee and down range computations; wind corrections and launch angles. <i>Spring.</i>		
ETG 3533C	ECS-ENT	4(3,2)	ETI 4381	ECS-ENT	3(3,0)	ETI 4839	ECS-ENT	3(3,0)
Applied Engineering Strength of Materials: PR: MAC 1105, MAC 1114, ETG 3541, PHY 2053C, junior standing; CR: MAC 2253 or MAC 2311. Relationship between external forces and action of members of a structure. Topics include stress, shear, moment, deflections, columns, connections, and Mohr's circle. May be repeated for credit. <i>Spring.</i> M&S fee: \$15.00			Ground System Design: PR: PHY 2053C. Fundamentals of ground system design and operation, its architecture and technology. Cost and performance trade offs in the spacecraft-to-ground communications link and ground system design. <i>Occasional.</i>			Space Electro-Optics Technology: PR: PHY 2053C, Calculus I, II, CAD. Engineering aspects of current electro-optics and laser-optics technology in theory and application, including design, system integration, system alignment, system calibration, and testing. <i>Occasional.</i>		
ETG 3541	ECS-ENT	3(3,0)	ETI 4382C	ECS-ENT	3(1,4)	ETM 4220	ECS-ENT	4(4,0)
Applied Mechanics: PR: MAC 1105 and MAC 1114 and PHY 2053C or equivalent. Coplanar, parallel, concurrent, and non-current force systems. Centroids, CG's, moments of inertia. Principles of dynamics, rectilinear motion and rotation, work, energy, power, impulse, momentum, and impact. <i>Fall, Spring.</i>			Launch Processing Technology: PR: or CR: ETI 4150 or C.I. Processes and methods in the preparation, integration, and launch of a space payload and launch vehicle. Includes hands-on launch processing activities in a laboratory environment. <i>Occasional.</i>			Applied Energy Systems: PR: MAC 2253 or MAC 2311; Chemistry, College Physics. Introduction to energy, work, and thermal systems and processes. Applications of heat energy with emphasis on solar energy. <i>Spring.</i>		
ETG 4950C	ECS-ENT	3(1,4)	ETI 4448	ECS-ENT	3(3,0)	ETM 4231C	ECS-ENT	4(3,2)
Senior Design Project: PR: Senior Standing, Engineering Technology major and must be within 18 hour of graduation. Supervised individual or group projects involving project definition, planning, development, testing, and evaluation. <i>Fall, Spring.</i>			Applied Project Management: PR: Junior Standing. Statement of work, activity decisions, timelines, scheduling, and resource allocation methods. Techniques will be appropriate for large and small projects within commercial, academic, or non-profit organizations. <i>Spring.</i>			Applied Heat Transfer: PR: ETG 3541 or equivalent, MAC 2253 or MAC 2311. An introduction to the basic concepts and applications of conduction, convection and radiation heat transfer. Basic energy balances and their applications are emphasized. Study state and transient phenomena are evaluated, including numerical solutions. <i>Occasional.</i>		

ETM 4331C	ECS-ENT	4(3,2)	EUH 3281	CAH-HIST	3(3,0)	EUH 4500	CAH-HIST	3(3,0)
Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311; PHY 2053C or equivalent. An introduction to the basic concepts of hydrostatics and hydrodynamics covering fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc. <i>Occasional.</i>			Second World War and Rebirth of Europe: PR: EUH 2000 and 2001 or C.I. Origins of World War II; Hitler's "New Order," and resistance movements; Cold War; de-Stalinization of Russia; Sovietization of East Central Europe; Western reconstruction, and prosperity. <i>Occasional.</i>			English History to 1485: PR: EUH 2000 and 2001 or C.I. <i>Occasional.</i>		
ETM 4403C	ECS-ENT	3(2,2)	EUH 3315	CAH-HIST	3(3,0)	EUH 4501	CAH-HIST	3(3,0)
Applied Kinematics: PR: ETG 3541 and Engineering Drawing. Analysis and design of machine elements and mechanisms involving velocities and accelerations of components, linkages, gears, and cams. <i>Occasional.</i>			History of Modern Spain: PR: Modern European History (18th-20th century). The evolution of Modern Spain through its key institutions, cultural as well as social movements, and impact of political and intellectual trends, 1700-Present. <i>Occasional.</i>			English History: 1485-1815: PR: EUH 2000 and 2001 or C.I. <i>Occasional.</i>		
ETM 4512C	ECS-ENT	3(2,2)	EUH 3411	CAH-HIST	3(3,0)	EUH 4502	CAH-HIST	3(3,0)
Applied Design of Machine Elements: PR: ETG 3541, ETG 3533C, and Engineering Drawing. Design of basic machine elements, including cams, gears, bearings, and coupling, taking into account loads, stresses, and strength of materials. <i>Occasional.</i>			Ancient Rome: PR: EUH 2000 and EUH 2001 or C.I. Romans and their contributions to Western Civilization. Covers traditions of Roman Republic, Carthaginian Wars, Imperial Period. <i>Occasional.</i>			British History: 1815-Present: PR: EUH 2000 and 2001 or C.I. <i>Occasional.</i>		
ETM 4755	ECS-ENT	4(4,0)	EUH 3431	CAH-HIST	3(3,0)	EUH 4571	CAH-HIST	3(3,0)
Applied Air Conditioning: PR: ETM 4331C. Analysis of body comfort, psychometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements. <i>Occasional.</i>			History of Modern Italy: PR: EUH 2001. The history of modern Italy from the origins of national unification through the post-World War II era. <i>Occasional.</i>			History of Russia to 1801: PR: EUH 2000 and 2001 or C.I. Kievan State; Mongol Yoke; Development of Muscovite Expansionism and Absolutism; Time of Troubles; Westernization of Russia under Peter I and Catherine; Role of Orthodox Church. <i>Occasional.</i>		
EUH 2000	CAH-HIST	3(3,0)	EUH 3431H	CAH-HIST	3(3,0)	EUH 4574	CAH-HIST	3(3,0)
Western Civilization I: A survey of western civilization from ancient to 1648. <i>Fall, Spring.</i>			Honors History of Modern Italy: PR: EUH 2001 and consent of Honors. The history of modern Italy from the origins of national unification through the post-World War II era, with honors content. <i>Occasional.</i>			History of Russia: 1801-1917: PR: EUH 2000 and 2001 or C.I. Alexander I; Napoleonic Invasion, Revolutionary Movement; Russian Policy toward Central Asia and China; Great Reforms; Russo-Japanese War; Revolution of 1905; Constitutional Period; Triple Entente. <i>Occasional.</i>		
EUH 2000H	CAH-HIST	3(3,0)	EUH 3451	CAH-HIST	3(3,0)	EUH 4582	CAH-HIST	3(3,0)
Honors Western Civilization I: PR: Permission of Honors. A survey of western civilization from ancient to 1648. Honors-level content. <i>Fall, Spring.</i>			History of Modern France: PR: EUH 2001, EUH 3242 or C.I. The course traces the evolution of France through the study of French political thought, institutional development, social movements, and international roles from 1700 - present. <i>Occasional.</i>			History of Russia in the 20th Century: PR: EUH 2000 and 2001 or C.I. War and Revolution, Lenin, Stalinist Period, WWII, The Cold War. Collapse of Soviet Union, the New Russia. <i>Occasional.</i>		
EUH 2001	CAH-HIST	3(3,0)	EUH 3531	CAH-HIST	3(3,0)	EUH 4610	CAH-HIST	3(3,0)
Western Civilization II: A survey of western civilization from 1648 to present. May be taken before EUH 2000. <i>Fall, Spring.</i>			Medieval Ireland: PR: EUH 2000 and EUH 2001 or C.I. Ireland's historical and cultural development from 1129 to 1607. <i>Occasional.</i>			20th Century Russian Diplomatic History: PR: C.I. Russian diplomatic history from the signing of the Entente Cordiale to the aftermath of the Cold War. <i>Occasional.</i>		
EUH 2001H	CAH-HIST	3(3,0)	EUH 3536	CAH-HIST	3(3,0)	EUH 4620	CAH-HIST	3(3,0)
Honors Western Civilization II: PR: Permission of Honors. A survey of western civilization from 1648 to present. May be taken before EUH 2000. Honors-level content. <i>Fall, Spring.</i>			Early Modern Ireland: PR: EUH 2000 and EUH 2001 or C.I. Ireland's historical and cultural development from 1607 to 1800. <i>Occasional.</i>			Women in European Society: From Medieval to Modern: PR: Junior standing or C.I. This course examines the changing situation of women in Europe from the Middle Ages to the twentieth century. <i>Occasional.</i>		
EUH 3122	CAH-HIST	3(3,0)	EUH 3538	CAH-HIST	3(3,0)	EUH 4674	CAH-HIST	3(3,0)
Medieval Society and Civilization: PR: EUH 2000 and 2001 or C.I. <i>Fall, Spring.</i>			Modern Ireland: PR: EUH 2001. Cultural, political and social developments in Ireland after 1800. <i>Odd Fall.</i>			Sport and Society in the Ancient World: PR: EUH 2000, EUH 2001 or WOH 2012, WOH 2022. A comparison of the original form of the Olympic Games (and ancient notions of sport) to their modern counterparts. <i>Occasional.</i>		
EUH 3124	CAH-HIST	3(3,0)	EUH 3651	CAH-HIST	3(3,0)	EUH 5247	CAH-HIST	3(3,0)
The Crusades: PR: EUH 2000 and EUH 2001, or C.I. The phenomenon of crusading in medieval Europe and the Middle East, including theories of "just war" and jihad. <i>Even Spring.</i>			War and Society: Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers; influence of military on governments; and international efforts to preserve peace. <i>Occasional.</i>			Colloquium in Europe from 1919-1939: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history between 1919 and 1939. <i>Occasional.</i>		
EUH 3142	CAH-HIST	3(3,0)	EUH 4284	CAH-HIST	3(3,0)	EUH 5285	CAH-HIST	3(3,0)
Renaissance and Reformation: PR: EUH 2000 and 2001 or C.I. Influence of Renaissance humanism on arts, letters, and politics; Luther and Protestantism; the Catholic Counter-Reformation and the Thirty Years' War. <i>Occasional.</i>			Fascism and the Totalitarian Dictatorships: PR: EUH 2000 and 2001 or C.I. Totalitarian ideologies, institutions, and practices in Lenin's and Stalin's Russia. Mussolini's Italy, and Hitler's Third Reich; fascist movements in the non-totalitarian states. <i>Occasional.</i>			Colloquium in Europe Since World War II: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history since WW II. <i>Occasional.</i>		
EUH 3235	CAH-HIST	3(3,0)	EUH 4400	CAH-HIST	3(3,0)	EUH 5371	CAH-HIST	3(3,0)
Romanticism and Realism: PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservatism; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism. <i>Occasional.</i>			The History of Ancient Greece: PR: EUH 2000, EUH 2001 or WOH 2012, WOH 2022. Systems of government in the various city-states of the ancient Greek world from the Bronze Age through the Hellenistic era (C. 1200BCE-30BCE). <i>Occasional.</i>			Colloquium in Spanish History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Spanish history. <i>Occasional.</i>		
EUH 3242	CAH-HIST	3(3,0)	EUH 4465	CAH-HIST	3(3,0)	EUH 5415	CAH-HIST	3(3,0)
Modern Europe and the First World War: A survey of the impact of the democratic institutions, education, transportation, housing, health, mass communications, entertainment, women, and warfare. <i>Occasional.</i>			Hitler's Third Reich: PR: EUH 2000 and 2001 or C.I. German nationalism and militarism; World War I and Versailles Treaty; the Weimar Republic and the rise of the Nazis; Second World War, division and recovery. <i>Occasional.</i>			Rome and Early Christianity: PR: Graduate standing or C.I. Current trends in historical literature in christianity from its development as a distinct religion to its relations with and eventual "triumph" within the Roman Empire. <i>Occasional.</i>		

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<p>EUH 5546 CAH-HIST 3(3,0) Colloquium: British History: PR: 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. <i>Occasional.</i></p>	<p>EVT 4368 ED-TLP 3(3,0) Advanced Teaching Techniques for Vocational Education: PR: EVT 3365 or C.I. Study, practice, and achievement of techniques including cooperative learning, simulation, instructional modeling and evaluation of instructional effectiveness. <i>Fall.</i></p>	<p>EXP 5256 COS-PSYCH 3(3,0) Human Factors I: PR: 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. <i>Fall.</i></p>
<p>EUH 5579 CAH-HIST 3(3,0) Colloquium in Soviet Russia: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Russian history, 1911-present. <i>Occasional.</i></p>	<p>EVT 4815 ED-ERTL 3(3,0) Safety in the Technical Education Classroom and Laboratory: PR: EVT 3365 or C.I. Federal regulations, safety practices, guidance, and support materials for technical trainers and teachers in school and industrial settings. <i>Occasional.</i></p>	<p>EXP 5445 COS-PSYCH 3(3,0) Psychology of Learning and Motivation: PR: DEP 5057, and graduate status or senior standing or C.I. Examination of theories and research concerning the acquisition and retention of behavior, as well as motivational factors which influence learning and behavior. <i>Occasional.</i></p>
<p>EUH 5595 CAH-HIST 3(3,0) Colloquium in Czarist Russia: PR: Graduate status or senior standing or C.I. Selected topics on the literature of Russia under the Czars prior to 1917. <i>Occasional.</i></p>	<p>EVT 5260 ED-TLP 2-4(2-4,0) Cooperative Programs in Vocational Education: PR: Regular Certificate or C.I. Study of cooperative vocational programs and achievement of competencies needed to establish, manage, and coordinate co-op program activities in all vocational areas. <i>Occasional.</i></p>	<p>FIL 1000 CAH-FILM 3(3,0) Cinema Survey: Introductory course that focuses on different approaches to studying cinema. <i>Fall, Spring.</i></p>
<p>EUH 5608 CAH-HIST 3(3,0) Colloquium European Intellectual History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of European intellectual history. <i>Occasional.</i></p>	<p>EVT 5266 ED-TLP 2-4(2-4,0) Management of Vocational Programs: PR: Rank III Certificate or C.I. Study and achievement of selected competencies needed by vocational teachers, supervisors, and local administrators in the management of vocational education programs in the schools. <i>Occasional.</i></p>	<p>FIL 1000H CAH-FILM 3(3,0) Honors Cinema Survey: PR: Permission of Honors. Introductory course that focuses on different approaches to studying cinema. Honors-level content. <i>Fall, Spring.</i></p>
<p>EVR 5930 COS-BIOL 1(1,0) Seminar in Conservation Issues: PR: Graduate status or senior standing or C.I. Contemporary topics stressing a broad base of conservation issues will be the focus of this seminar series. May be repeated for credit only when course content is different. <i>Occasional.</i></p>	<p>EVT 5561 ED-TLP 2-3(2-3,0) Student Guidance in the Vocational Program: PR: Basic Teacher Certificate or C.I. Achievement of skills used by teachers as they gather student data, confer with students, and help students plan for employment or further education. <i>Occasional.</i></p>	<p>FIL 1007 CAH-FILM 3(3,0) Foundations of Story: PR: Digital Media or Cinema Studies major, or Film minor, or C.I. Analysis of dramatic and cinematic narrative structures, both plot and character, from historical and cultural perspectives. <i>Fall, Spring.</i></p>
<p>EVT 3062 ED-TLP 3(3,0) Professional Role of the Vocational Teacher: PR: EVT 3371 or C.I. <i>Occasional.</i></p>	<p>EXP 3204C COS-PSYCH 4(3,2) Perception: PR: PSY 2012, PSY 3213C. Consideration of physical and psychological variables in perceptual phenomena. Lecture/Lab. <i>Fall.</i></p>	<p>FIL 1008 CAH-FILM 3(3,0) Cinematic Expression/Aesthetics: PR: Digital Media or Cinema Studies major. Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles. <i>Fall, Spring.</i> M&S fee: \$13.00</p>
<p>EVT 3312 ED-TLP 3(3,0) Course Construction in Health Occupations Education: PR: EVT 3365 or C.I. Planning and preparation of materials, managing the laboratory and involvement in appropriate Vocational Student Organizations. Clinical instruction related to vocational education and industry training. <i>Occasional.</i></p>	<p>EXP 3250 COS-PSYCH 3(3,0) Principles of Human Factors Psychology: PR: PSY 2012. The study of human performance in human-machine-environment systems. Topics will include human factors psychology in the design of displays and controls, human information processing, and the effects of some environmental variables on human performance. <i>Spring.</i></p>	<p>FIL 1009 CAH-FILM 3(3,0) Cinematic Expression for Majors: PR: FIL 1007 or FIL 1100. Analysis and practice of aesthetic principles essential in film-making, including composition, moving graphics, image design, and lighting styles. <i>Spring.</i></p>
<p>EVT 3365 ED-TLP 3(3,0) General Methods/Testing Evaluation in Vocational Education: General teaching methods, testing and evaluation. Techniques specific to Vocational Education and Industry Training. <i>Odd Fall.</i></p>	<p>EXP 3304 COS-PSYCH 3(3,0) Motivation: PR: PSY 2012. Psychological and physiological aspects of human motivation. <i>Spring.</i></p>	<p>FIL 1100 CAH-FILM 3(3,0) Foundations of Story for Majors: PR: Pending Film majors or Film minors. Analysis of dramatic and cinematic narrative structures, both plot and character, from a historical and cultural perspective. <i>Occasional.</i></p>
<p>EVT 3367 ED-TLP 3(3,0) Evaluation of Vocational Instruction: PR: EVT 3371 or C.I. Study, practice, and achievement of competency in assessing student cognitive, affective, and psychomotor performance in vocational education. <i>Spring.</i></p>	<p>EXP 3404 COS-PSYCH 3(3,0) Basic Learning Processes: PR: PSY 2012. Theory and research on learning phenomena. <i>Occasional.</i></p>	<p>FIL 1226 CAH-FILM 3(3,0) Film Production Tools: Basic tools of filmmaking, including digital video cameras, 16 mm cameras, basic lighting equipment, non-linear editing equipment, sound recording and mixing, laboratory processing, and digital post-production. <i>Occasional.</i></p>
<p>EVT 3371 ED-TLP 3(3,0) Course Construction in Industrial Education: PR: EVT 3365 or C.I. Planning and preparing instructional materials, organizing and managing the Industrial Education laboratory, and involvement in VICA. <i>Occasional.</i></p>	<p>EXP 3604C COS-PSYCH 3(3,0) Cognitive Psychology: PR: PSY 2012. Theory and research on attention, memory, complex human learning, and problem solving. <i>Fall, Spring.</i></p>	<p>FIL 2107 CAH-FILM 3(3,0) Script Analysis: CR: ENC 1101, FIL 1007. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional filmmaking and screenwriting. <i>Fall, Spring.</i></p>
<p>EVT 3502 ED-TLP 3(3,0) Special Needs of Vocational Students: PR: EVT 3365 or C.I. Achievement of teacher competency in meeting the special needs of the handicapped, culturally different, slower learner, those with basic skill deficiencies, and those in non-traditional programs. <i>Spring.</i></p>	<p>EXP 4507C COS-PSYCH 3(1,4) Advanced Human Memory and Cognition: PR: PSY 3213C, EXP 3604C. In-depth coverage of experimental research on human memory and cognition. <i>Occasional.</i> M&S fee: \$15.00</p>	<p>FIL 2200 CAH-FILM 3(3,0) Cinematography I: PR: Film majors, FIL 2274C, FIL 2480. Concepts and tools of cinematography and lighting. <i>Fall.</i> M&S fee: \$45.00</p>
<p>EVT 4065 ED-TLP 3(3,0) Principles and Practices of Technical Education: PR: EVT 3365 or C.I. Integrating historical principles, career structure, and current trends in technical education. <i>Fall.</i></p>	<p>EXP 5208 COS-PSYCH 3(3,0) Sensation and Perception: PR: 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. <i>Odd Spring.</i></p>	<p>FIL 2274C CAH-FILM 3(3,2) Editing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems. <i>Spring.</i> M&S fee: \$45.00</p>
<p>EVT 4169 ED-TLP 3(3,0) Curriculum Development Techniques for Industry Training: The practical application of fundamental knowledge, important skills, alternative analysis methods, and the critical elements of the trainers analysis tasks. <i>Spring.</i></p>	<p>EXP 5254 COS-PSYCH 3(3,0) Human Factors and Aging: PR: Graduate status, post-bac, or senior standing or C.I. An overview of issues related to enhancing quality of life of elderly through the implementation of basic human factors principles in environmental and task design. <i>Even Fall.</i></p>	<p>FIL 2400 CAH-FILM 3(2,2) History of Motion Pictures: The history of motion pictures as art and industry; from 1895 to the present. <i>Fall, Spring.</i> M&S fee: \$25.00</p>
		<p>FIL 2423 CAH-FILM 3(3,0) Foundations of Production: PR: Digital Media, Cinema Studies major or C.I. Basic production techniques used in film making. Students must supply their own video equipment and editing equipment. Any format is acceptable. <i>Fall, Spring.</i></p>

FIL 2480 CAH-FILM 3(3,0) Directing for Film I: PR: Film BFA or World Cinema Major; and FIL 1009, FIL 1100, FIL 3124, and FIL 3201C. Introduction to processes and techniques of film directing. <i>Spring.</i>	FIL 3287C CAH-ART 3(2,4) Intermediate Animation: PR: Animation majors only, FIL 3286C, and a satisfactory portfolio review or C.I. Focus on 3D computer modeling and animation systems. Hands-on exercise on the type of high-end animation systems used in the film industry. May be repeated for credit. <i>Even Fall, Spring.</i> M&S fee: \$45.00	FIL 3511 CAH-FILM 3(3,0) French New Wave Cinema: PR: FIL 2400. Post-World War II period of the French cinema, emphasizing the work of Renoir, Bresson, Godard, Rohmer, Resnais, and Rivette. <i>Occasional.</i>
FIL 2481 CAH-FILM 3(3,0) Directing the Actor for Film I: PR: Film BFA or World Cinema major; or C.I. Developing an ability to direct and work with film actors effectively, using various acting and directing techniques. <i>Fall.</i>	FIL 3300C CAH-FILM 3(3,1) Film Documentary: PR: Film or Cinema Studies major, FIL 3201C or FIL 3229. The uses and analysis of the non-fiction film. <i>Fall.</i> M&S fee: \$15.00	FIL 3512 CAH-FILM 3(3,0) Italian Neo-Realist Cinema: PR: FIL 2400. Post-World War II period of the Italian cinema, with emphasis on the work of Antonioni, Visconti, Pasolini, Fellini, and Rossellini. <i>Even Fall, Spring.</i>
FIL 3006 CAH-FILM 3(3,0) Art of the Cinema: An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound. <i>Fall, Spring.</i> M&S fee: \$25.00	FIL 3304C CAH-FILM 3(1,3) Documentary Vision: PR: Film major and FIL 3201C. Styles and approaches to documentary filmmaking, with emphasis on making short, personal films. <i>Spring.</i>	FIL 3513 CAH-FILM 3(3,0) Latin American Cinema: PR: FIL 3503C and FIL 3504C. Latin American films and film movements, historical and contemporary issues, social, and aesthetic concerns. <i>Spring.</i>
FIL 3102 CAH-FILM 3(3,0) Writing for Film and TV: PR: ENC 1102, Junior Standing. Theories and process of screen writing for motion pictures and television. Students learn how to create stories and scripts for the entertainment marketplace. <i>Fall, Spring.</i>	FIL 3307 CAH-FILM 3(3,0) Docudrama: PR: FIL 2480. Techniques to dramatize real-life events and persons, with emphasis on representation, adaptation and ethics. <i>Occasional.</i>	FIL 3514 CAH-FILM 3(3,0) International Cinema: PR: FIL 2400. Post-World War II period of the international cinema, with emphasis on the cinemas of Europe and Asia. <i>Occasional.</i>
FIL 3106C CAH-FILM 3(2,3) Introduction to Scriptwriting: PR: Film majors only. Rudiments of scriptwriting, including visual storytelling, story structure, character, dialogue, and introduction to scriptwriting software. <i>Occasional.</i>	FIL 3309 CAH-FILM 3(3,1) Women in Film: PR: Junior standing. A critical examination of how cinematic images of women affect cultural perceptions and an overview of historically significant women filmmakers and related sociopolitical issues. <i>Fall, Spring.</i>	FIL 3520 CAH-LANG 3(3,0) Italian Film: This course attempts to stimulate and/or increase the interest of students in Italian cinema as an art form with the director playing the key role. Films by most outstanding Italian movie directors will be analyzed from a social, economic, and historical point of view. <i>Occasional.</i>
FIL 3124 CAH-FILM 3(3,0) Short Script I: PR: Film major and FIL 2107. Rudiments of writing the short script. Analysis of script models and examination of differences between long and short forms. Writing scripts for workshops. <i>Fall, Spring.</i>	FIL 3401 CAH-FILM 3(3,0) Film History I: PR: Film majors and FIL 2107. Examines film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers cinema history from 1895 to 1945. <i>Fall.</i>	FIL 3521 CAH-LANG 3(3,0) French Film: The study of French cinema as an art form and the key role of the director. Films are analyzed from structural, social, economical, and historical perspectives with attention to their relationship with French literature. Taught in English. <i>Occasional.</i>
FIL 3125 CAH-FILM 3(3,0) Short Script II: PR: Film major, FIL 3124. Advanced writing of short scripts in preparation for Capstone 1 and 2 courses. <i>Even Spring.</i>	FIL 3402 CAH-FILM 3(3,0) Film History II: PR: Film majors and FIL 3401. Film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers from 1946 to the present. <i>Spring.</i>	FIL 3522 CAH-LANG 3(3,0) German Film: PR: C.I. Exploration of the form and context of German film during different time periods in relation to other aspects of culture and to sociopolitical structures at the time. <i>Occasional.</i>
FIL 3201C CAH-FILM 3(2,4) Introduction to Film Production: PR: Film majors, FIL 2107. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production. <i>Fall.</i> M&S fee: \$45.00	FIL 3410 CAH-FILM 3(3,0) History of Animated Films I: PR: Cinema Studies, Art, Animation or Digital Media major. Evolution of animation from its roots in Art, Theatre, and Novelty Inventions to its rise as a cinematic force of popular storytelling. <i>Even Fall.</i>	FIL 3531 CAH-FILM 3(3,0) Advanced Story Structure Research: PR: Majors only. Early and contemporary theories of story structure. Identification of divergent ideas without dilution, development of new language, and recognition of patterns in complex structures. <i>Occasional.</i>
FIL 3225 CAH-FILM 3(3,0) Directing the Actor for Film II: PR: Film BFA or World Cinema major; and FIL 2481 or C.I. Characterization and scene study as it applies to directing the actor for film. <i>Spring.</i>	FIL 3412 CAH-FILM 3(4,0) Black Cinema: PR: Junior standing and ENC 1102. Independent black film movements; theory, aesthetics and criticism of African-American, African-Canadian and African-Caribbean cinema. <i>Fall.</i>	FIL 3534 CAH-FILM 3(3,0) Sound Design for Film I: PR: Film BFA, World Cinema, or Digital Media major. Technical and aesthetic aspects of production and post-production sound recording, editing, and mixing for film. <i>Fall, Spring.</i>
FIL 3229 CAH-FILM 3(0,3) Film Production Technology Workshop: PR: Restricted to Film majors. Demonstrations and hands-on equipment workshops to understand and operate the tools of the film-making process. May be repeated for credit. <i>Occasional.</i>	FIL 3418 CAH-FILM 3(3,0) Avant-Garde Cinema: PR: Junior standing or C.I. History and aesthetics of Avant-Garde Cinema with an emphasis on post WWII North American films and filmmakers. <i>Spring.</i> M&S fee: \$10.00	FIL 3542 CAH-FILM 3(3,0) Cinema Criticism Writing: PR: ENC 1102, FIL 2400, FIL 3401, FIL 3402 and FIL 3503C. Modes of cinema criticism. <i>Occasional.</i>
FIL 3236C CAH-FILM 3(3,6) Advanced Documentary Production: PR: FIL 3300C. Processes and principles of advanced documentary production to capture on-going reality based situations. <i>Occasional.</i> M&S fee: \$14.00	FIL 3455C CAH-FILM 6(2,4) Film Landscapes: Story, Image and Production Design: PR: FIL 2400. The use of landscape in film and its importance to the art of production design. <i>Fall, Spring.</i>	FIL 3551 CAH-FILM 3(3,0) American Cinema: PR: Film major. Lectures, films and forums designed to provide awareness of styles, images, and myths in cinema that influence or reflect our culture. <i>Spring.</i>
FIL 3252C CAH-FILM 3(3,1) Cinematic Expression: PR: FIL 2400. Cinematography using video format; study of fundamentals of motion-picture communication, film structure and storytelling. <i>Spring.</i>	FIL 3503C CAH-FILM 3(3,1) Film Theory and Criticism I: PR: FIL 2107 and Film or Cinema Studies major. Major film theories to the Second World War Period. <i>Fall.</i> M&S fee: \$10.00	FIL 3625 CAH-DIG 3(3,0) Interactive Entertainment: PR: FIL 3201C or DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001; and Film or Digital Media major. Ways to apply diverse skills of film making to digital media, non-linear story telling, virtual reality, video games and non-traditional education and military simulation. <i>Fall, Spring.</i>
FIL 3269 CAH-FILM 3(3,0) Cinema Directors: PR: FIL 3503C and Film or Cinema Study major. Intensive study of the work of selected filmmakers using multiple modes of criticism and author analysis to examine films. <i>Occasional.</i>	FIL 3504C CAH-FILM 3(3,1) Film Theory and Criticism II: PR: FIL 3503C and Film or Cinema Studies major. Major film theories from Second World War period to present. <i>Spring.</i> M&S fee: \$10.00	FIL 3871 CAH-FILM 3(3,0) The American Film Artist: PR: FIL 2400. Analysis of a major American filmmaker's style, vision and works; how these evolved and their impact on film and the culture. May be repeated for credit. <i>Fall.</i> M&S fee: \$10.00
FIL 3286C CAH-ART 3(2,4) Introduction to Animation: PR: Animation majors only, and a satisfactory portfolio review or C.I. Introductory computer graphic techniques utilizing microcomputer systems. Techniques include basic paint systems, color cycling and 2D animation. <i>Fall, Spring.</i> M&S fee: \$45.00	FIL 3510 CAH-FILM 3(3,0) World Cinema Traditions: PR: Cinema Studies or Film major, FIL 3504C. The relationship among film, history, and culture in selected Asian, African, Latin American, and Middle Eastern countries. <i>Fall, Spring.</i>	

UCF Courses and Descriptions

FIL 3922 CAH-FILM 1(1,1) Film Colloquium: PR: Film majors only. A series of lectures, films and forums designed for students in the film program. The class is team taught by film faculty and guest speakers from the film industry. Graded S/U. May be repeated for credit. <i>Fall, Spring.</i>	FIL 4280 CAH-DIG 3(3,0) Animated Film-History for non film majors: PR: FIL 3410. Evolution of animation since World War II. <i>Occasional.</i>	FIL 4564 CAH-FILM 3(3,0) Africana Cinema: PR: FIL 3503C, FIL 3504C. Aesthetics, theory and practice of filmmaking in the African Diaspora. <i>Occasional.</i>
FIL 4103 CAH-FILM 3(3,0) Adaptation: PR: FIL 2107. The process of adapting scripts from other sources. The investigation of the legalities of adaptation, analysis of existing models, and written adaptations. <i>Occasional.</i>	FIL 4284C CAH-FILM 3(3,1) Non-Linear Editing: PR: Film major and FIL 3201C. Provide basic working knowledge of AVID editing system, to edit assigned projects, give basic understanding of editorial styles and techniques in film storytelling. <i>Occasional.</i> M&S fee: \$45.00	FIL 4574 CAH-FILM 3(3,0) Images and Text in Context: PR: FIL 2400 or C.I. Moving images, the still image, and text in their cultural contexts. <i>Occasional.</i>
FIL 4111C CAH-FILM 3(2,3) Feature/TV Writing I: PR: Film major and FIL 3124. Writing workshop, examination of mythic storytelling, and ethics of scriptwriting. <i>Fall.</i>	FIL 4288C CAH-ART 3(2,4) Advanced Animation: PR: Animation majors only, FIL 3286C, FIL 3287C, FIL 4288C, and a satisfactory portfolio review or C.I. Advanced 3D modeling and animation techniques. Working in small production teams, students will create short animated segments using a high-end 3D animation system. May be repeated for credit. <i>Fall, Odd Spring.</i> M&S fee: \$45.00	FIL 4602 CAH-FILM 3(3,0) Film Business: PR: Film major, FIL 4207, FIL 4202C. This is a seminar course taught by a professional in the film industry which deals with issues relating to the organization and production of motion pictures. <i>Spring.</i>
FIL 4112C CAH-FILM 3(2,3) Feature/TV Writing II: PR: Film major, FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage. <i>Spring.</i>	FIL 4289C CAH-ART 3(2,4) Animation Workshop: PR: Animation majors only, FIL 3286C, FIL 3287C, FIL 4288C, and a satisfactory portfolio review or C.I. A production level course in computer animation that emphasizes all phases of the commercial production process, including storyboard, budgets, client relations, and post-production. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$45.00	FIL 4604 CAH-FILM 3(3,0) The Film Producer: PR: Film major or Cinema Studies major, and FIL 4486C. The role of the producer is examined in the context of theatrical film. <i>Spring.</i>
FIL 4113C CAH-FILM 3(2,3) Interactive Writing I: PR: Junior Standing, Film major, FIL 3124 or Digital Media major. Writing workshop for experienced scriptwriters, cold readings, preparing calling card script, marketing scripts and funding sources. <i>Occasional.</i>	FIL 4294C CAH-FILM 3(3,2) Editing II: PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing. <i>Fall.</i> M&S fee: \$45.00	FIL 4607 CAH-FILM 3(3,0) Film Production Management: PR: Film major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement. <i>Spring.</i>
FIL 4114C CAH-FILM 3(3,2) Interactive Writing II: PR: Film major and FIL 4113C. Advanced writing and development of short interactive narratives as well as examination of non-traditional structures as applied to interactive writing. <i>Occasional.</i>	FIL 4301C CAH-FILM 3(1,3) Documentary Workshop I: PR: FIL 3304C. Socially significant documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media. <i>Fall.</i>	FIL 5165 CAH-FILM 3(3,0) Visual Storytelling: PR: Admission to Film and Digital Media master's program or C.I. Traditional forms of visual storytelling ranging from storyboarding to classic structural paradigms for feature film scripts. <i>Fall.</i>
FIL 4127C CAH-FILM 3(2,2) Motion Picture Genre: PR: FIL 2400. Analysis and evaluation of films, including their major genres, directors, styles, and periods. <i>Even Fall.</i> M&S fee: \$10.00	FIL 4302C CAH-FILM 3(1,3) Documentary Workshop II: PR: FIL 4301C. Advanced documentary projects for community groups, heritage organizations, non-profit agencies and NGOs using film, video and digital media. <i>Spring.</i>	FIL 5609 CAH-FILM 3(3,0) Film and Internet Business: PR: Graduate status or senior standing or C.I. Survey of the business of financing and distributing films. Explores various, including feature films, short films, television documents and the Internet. <i>Fall.</i>
FIL 4202C CAH-FILM 3(2,4) Intermediate Film Production: PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking. <i>Occasional.</i> M&S fee: \$45.00	FIL 4411 CAH-FILM 3(3,0) History of Animated Films II: PR: FIL 3410, and Cinema Studies, Art, Animation or Digital Media major. Growth and diversification of American and international animation since 1945. <i>Spring.</i>	FIL 5800 CAH-FILM 3(3,0) Research Methods in Film and Digital Media: PR: Admission to Film and Digital Media graduate program or C.I. Research methodology for the study and production of Film and new Media. <i>Spring.</i>
FIL 4203C CAH-FILM 3(2,4) Capstone I: PR: FIL 3125 or C.I. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. Graded S/U. <i>Fall.</i> M&S fee: \$45.00	FIL 4436 CAH-FILM 3(3,0) Film Theory/Film Production: PR: Junior standing and FIL 1008 or FIL 1009, or C.I. Non-narrative filmmaking demonstrating the dynamic interplay between producing, viewing, reading and writing about images. <i>Odd Spring.</i>	FIL 5810 CAH-DIG 3(3,0) Transmedia Story Creation: PR: Admission to Film and Digital Media master's program or C.I. Repurposing of traditional stories: creation of authentic environments and the emergence of new authoring scenarios. <i>Fall.</i>
FIL 4207 CAH-FILM 3(3,0) Episodic Production: PR: Film or Animation Majors. Episodic film production techniques. <i>Occasional.</i>	FIL 4486C CAH-FILM 3(3,1) Directing for Film II: PR: Film BFA or World Cinema major and FIL 2480. Principles and practice in directing narrative and/or documentary motion pictures. <i>Fall.</i> M&S fee: \$45.00	FIL 5853 CAH-FILM 3(3,0) Cinematic Forms: PR: Graduate standing in Film and Digital Media or C.I. Evolution of cinematic form through the works of key directors and theorists. <i>Spring.</i>
FIL 4210C CAH-FILM 3(2,4) Cinematography II: PR: Film major, FIL 3201C, FIL 2200. Advanced principles and practices of cinematography. <i>Spring.</i> M&S fee: \$45.00	FIL 4487 CAH-FILM 3(3,0) Directing for Film III: PR: Film BFA or World Cinema major; and FIL 4486C. Advanced processes and techniques of film directing. <i>Spring.</i> M&S fee: \$45.00	FIN 2104 BA-FIN 3(3,0) Personal Finance and Investments: PR: Open to all students (majors, minors, and non-majors). An overview of personal and family financial planning. Topics include housing, investments, insurance, retirement planning, estate planning, financial services, consumer credit, and tax planning. <i>Fall, Spring.</i>
FIL 4211C CAH-FILM 3(1,3) Capstone II: PR: Film major and FIL 4203C. Intensive tutorial guidance, instruction and evaluation of final film projects in post production. May be repeated for credit. <i>Spring.</i> M&S fee: \$45.00	FIL 4506C CAH-FILM 3(2,2) Genre Writing: PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc. <i>Occasional.</i>	FIN 3303 BA-FIN 3(3,0) Financial Markets: PR: FIN 3403; open to majors or minors which require this course. The role of short and long-term financial markets and financial institutions in capital formation and allocation. Theories and mathematics of interest rates. <i>Fall, Spring.</i>
FIL 4213 CAH-FILM 3(3,0) Sound Design III: PR: FIL 4535C. Advanced aspects of sound mixing and sound editing using advanced protocols and digital format. <i>Occasional.</i>	FIL 4535C CAH-FILM 3(3,1) Sound Design for Film II: PR: Film BFA, World Cinema, or Digital Media major; and FIL 3534. An understanding of how production mixers bring the film director's vision to the screen. <i>Spring.</i>	FIN 3403 BA-FIN 4(4,0) Business Finance: PR: Junior standing and ACG 2021, ACG 2071, ECO 2013 and ECO 2023. With the balance sheet as a reference point, this course provides an introduction and overview of the acquisition, financing, and management of business assets. <i>Fall, Spring.</i>
FIL 4223 CAH-FILM 3(3,0) Design for Film: PR: Film major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction. <i>Fall.</i>		
FIL 4262C CAH-FILM 4(3,2) Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation. <i>Odd Spring.</i> M&S fee: \$20.00		

<p>FIN 3403H BA-FIN 4(4,0) Business Finance - Honors: PR: Junior standing, ACG 2021, ACG 2071 and ECO 2023. Open to University honors students and other students participating in the honors program. Same as FIN 3403 with honors level content. <i>Occasional.</i></p>	<p>FIN 4604 BA-FIN 3(3,0) International Financial Management: PR: FIN 3403; open to majors or minors which require this course. Analysis of the foreign financial methods and investment, currency futures market, capital budgeting, cash management, examination of Eurocurrency market and international bond markets. <i>Fall, Spring.</i></p>	<p>FLE 5870 CAH-LANG 3(3,0) Methods of Teaching Foreign Languages: PR: Graduate status or senior standing or C.I. This course introduces prominent theories and applied research in the field of second language acquisition. It also offers guidance in the practical matters of teaching lower division language courses at university and community college levels. <i>Occasional.</i></p>
<p>FIN 3414 BA-FIN 3(3,0) Intermediate Corporate Finance: PR: Fin 3403; open to majors or minors which require this course. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined. <i>Fall, Spring.</i></p>	<p>FIN 4730 BA-FIN 3(3,0) Senior Financial Consulting I: PR: Finance major, FIN 3403, FIN 3303, CR: FIN 3414, FIN 4453. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design and consulting in projects for major corporations. Part 1 of a two course sequence. Students must register for both semesters. <i>Occasional.</i></p>	<p>FLE 5875 CAH-LANG 3(3,0) Computer Application in Teaching Foreign Languages: PR: Graduate status or senior standing or C.I. Survey, analysis, and evaluation of computer software and Internet materials for teaching foreign languages. <i>Occasional.</i></p>
<p>FIN 3470 BA-FIN 3(3,0) Financial Statement Analysis: PR: FIN 3403. Understanding and interpreting financial statement data for business decisions. <i>Occasional.</i></p>	<p>FIN 4731 BA-FIN 3(3,0) Senior Financial Consulting II: PR: Finance major, FIN 4730. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design, and consulting in projects for major corporations. Part 2 of two semester course sequence. Students must register for both semesters. <i>Occasional.</i></p>	<p>FOL 3730 CAH-LANG 3(3,0) Romance Philology: The study of the major Romance Languages and their origins as they developed from Classical and Medieval Latin to their linguistic influences such as Arabic and Provençal. <i>Occasional.</i></p>
<p>FIN 3504 BA-FIN 3(3,0) Investment Analysis: PR: Fin 3403; open to majors or minors which require this course. A survey of investments, including security markets, investment vehicles, and environment. Principles of asset valuation in efficient markets. <i>Fall, Spring.</i></p>	<p>FIN 4941 BA-FIN 3(0,3) Finance Internship: PR: Finance major with at least 6 hours of completed coursework in finance, minimum overall GPA of 2.75 and consent of department chair. Supervised finance work experience in a pre-approved sponsoring organization. See department for information and application. Graded SJU. <i>Fall, Spring.</i></p>	<p>FRE 1005 CAH-MUSIC 1(1,0) French Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, French songs, and opera libretti. <i>Odd Fall.</i></p>
<p>FIN 4313 BA-FIN 3(3,0) Management of Financial Institutions: PR: FIN 3303, 3403; open to majors or minors which require this course. Analysis of management policies of financial institutions, including assets liability, and capital management. The economics and regulatory influence on competition is considered. <i>Occasional.</i></p>	<p>FLE 3160 ED-TLP 3(3,0) Education and Culture/Language Diversity: PR: Admission to major, overall 2.5 GPA, 3.0 GPA in major, and C.I. A cross-cultural field experience which includes cultural and language immersion. Theoretical and applied knowledge of culture and language diversity. <i>Occasional.</i></p>	<p>FRE 1120 CAH-LANG 4(4,1) Elementary French Language and Civilization I: Introduces the student to French culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language. <i>Fall, Spring.</i></p>
<p>FIN 4324 BA-FIN 3(3,0) Commercial Bank Management: PR: Fin 3303; open to majors or minors which require this course. Analysis of the intersections of commercial banking policies and an analysis of current approaches to managing specific bank products. <i>Fall.</i></p>	<p>FLE 4290 ED-TLP 2(2,0) Technology in the Foreign Language classroom: PR: EME 2040, EDG 4323. Applications of technology in the foreign language classroom including uses of the Web, e-mail, chat, electronic portfolios, electronic curriculum planning tools, and software. May be repeated for credit. <i>Occasional.</i></p>	<p>FRE 1121 CAH-LANG 4(4,1) Elementary French Language and Civilization II: PR: FRE 1120 or equivalent. Continuation of FRE 1120. <i>Fall, Spring.</i></p>
<p>FIN 4424 BA-FIN 3(3,0) Advanced Topics in Financial Management: PR: FIN 3414; open to majors or minors which require this course. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively. <i>Occasional.</i></p>	<p>FLE 4314 ED-TLP 3(3,0) Foreign Language Teaching in Elementary Schools: Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom. <i>Occasional.</i></p>	<p>FRE 2200 CAH-LANG 3(3,1) Intermediate French Language and Civilization I: PR: FRE 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Fall, Spring.</i></p>
<p>FIN 4453 BA-FIN 3(3,0) Financial Models: PR: FIN 3403, FIN 3414, and FIN 3504; open to majors or minors which require this course. Mathematical models applied specifically to financial problems, including those models suitable for representation and solutions on computers. <i>Fall, Spring.</i></p>	<p>FLE 4333 ED-TLP 3(3,0) Foreign Language Teaching in the Secondary School: PR: EDG 4323, proficiency in the target language and English. Methods of teaching foreign languages at the secondary level within a communicative framework. Current instructional techniques in listening, speaking, reading, and writing skills, testing, error correction. May be repeated for credit. <i>Occasional.</i></p>	<p>FRE 2201 CAH-LANG 3(3,1) Intermediate French Language and Civilization II: PR: FRE 2200 or equivalent. Continuation of FRE 2200 with emphasis on French civilization. <i>Fall, Spring.</i></p>
<p>FIN 4514 BA-FIN 3(3,0) Portfolio Analysis and Management: PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Portfolio and capital market theory in the determination of rational investment policies. Risk analysis, portfolio analysis, and evaluation techniques. <i>Fall, Spring.</i></p>	<p>FLE 5331 ED-TLP 3(3,0) Foreign Language Methods at the Secondary Level: PR: C.I., EDG 4323, or EDG 6236, or classroom teaching experience, and fluency in the target language and English. Methods of planning and teaching foreign language at the secondary level. The emphasis is on teaching communicatively and on integrating culture in the 6-12 classroom. May be used in the degree program a maximum of 2 times. <i>Occasional.</i></p>	<p>FRE 2240 CAH-LANG 3(3,0) Intensive French Conversation: PR: One year of French or equivalent. Practical use of the language, leading toward fluency and correctness in speaking. <i>Occasional.</i></p>
<p>FIN 4521C BA-FIN 4(3,1) Applied Portfolio Management 1: PR: Finance major, FIN 3403, FIN 3504, and C.I. For UCF Student Managed Portfolio program participants. Provides detailed, rigorous analysis of Equity portfolio management topics, including risk/return, valuation, forecasting, portfolio construction, and performance appraisal. <i>Occasional.</i></p>	<p>FLE 5335 ED-TLP 3(3,0) Foreign Language Methods at the Elementary Level: PR: C.I. or FLE 4333 or FLE 5870, EDG 4323 or EDG 6236, and fluency in target language and English. Methods of planning and teaching foreign language at the elementary level. The emphasis is on teaching communicatively and on integrating culture in the K-6 classroom. May be repeated for credit. <i>Occasional.</i></p>	<p>FRE 2270 CAH-LANG 8(16,10) Intermediate French Study Abroad: PR: Elementary French. Intermediate French language and civilization taught in the native environment. <i>Occasional.</i></p>
<p>FIN 4522C BA-FIN 4(3,1) Applied Portfolio Management 2: PR: Finance major, FIN 4521C, and C.I. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing. <i>Occasional.</i></p>		<p>FRE 3300 CAH-LANG 3(3,0) French Grammar: PR: FRE 2201 or equivalent. An in-depth review of the structures of French for students who intend to take French literature courses. <i>Fall.</i></p>
<p>FIN 4533 BA-FIN 3(3,0) Financial Derivatives: PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Options, futures, forwards, and other derivative contracts. Investments traded in these markets are examined. Pricing and hedging are considered. <i>Fall, Spring.</i></p>		<p>FRE 3410 CAH-LANG 3(3,0) Advanced Oral French Abroad: PR: FRE 2200, FRE 2201 or equivalent. Designed for students participating in the Study Abroad Program in France. Students will be immersed throughout the term speaking French. May be repeated for credit. <i>Occasional.</i></p>

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<p>FRE 3440 CAH-LANG 3(3,0) Business French I: PR: Three semesters of French language. Introduces vocabulary and terminology in various French business activities, as well as standards, procedures, and practices of the French business world. <i>Occasional.</i></p>	<p>FRW 3370 CAH-LANG 3(3,0) Short Stories of 18th, 19th and 20th Centuries: PR: FRE 2201 or equivalent. Selected readings designed to increase reading speed and develop analytical abilities. Authors include: Voltaire, Maupassant, Flaubert, Camus, and others. <i>Occasional.</i></p>	<p>FSS 3124 RCHM-HOS 3(3,0) Supply and Procurement Management: PR: HFT 1000 and Junior standing or C.I. The purchasing procedures, specifications, and controls of food and related products in the hospitality industry. <i>Occasional.</i> M&S fee: \$45.00</p>
<p>FRE 3441 CAH-LANG 3(3,0) Business French II: PR: FRE 3440 or C.I. Introduction to French business language and practices. <i>Occasional.</i></p>	<p>FRW 3740 CAH-LANG 3(3,0) The French Literature of Canada: PR: FRE 2201 or equivalent. A survey of the French literature of Canada from the late 19th century to the present, with particular emphasis on the novel and short story. <i>Occasional.</i></p>	<p>FSS 3232C RCHM-HOS 3(1,3) Intermediate Techniques of Food Production: PR: HFT 4250C. An advanced food production course which provides the student the opportunity to develop skills in pantry, garde-manger, garnishing, and convenience foods and services. Laboratory class. <i>Occasional.</i> M&S fee: \$45.00</p>
<p>FRE 3760 CAH-LANG 3(3,0) Advanced French Oral Communication: PR: FRE 2201 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. <i>Spring.</i></p>	<p>FRW 3752 CAH-LANG 3(3,0) French Caribbean Literature: PR: FRE 2201 or equivalent. Literature of the French speaking Caribbean from colonial times to the present, in French. <i>Occasional.</i></p>	<p>FSS 4135 RCHM-HOS 3(3,0) Corporate Contract and Managed Services Organizations: PR: HFT 3263. The unique characteristics of managed services including contracting, commodity purchasing, pricing, and revenue management. <i>Occasional.</i></p>
<p>FRE 3780 CAH-LANG 3(3,0) French Phonetics and Diction: French phonology, with emphasis on phonic groupings. <i>Spring.</i></p>	<p>FRW 3760 CAH-LANG 3(3,0) Creole Identity in the French-Speaking World: PR: FRE 2201 or equivalent. Creole literatures and cultures of the Francophone world. <i>Spring.</i></p>	<p>FSS 4286C RCHM-HOS 3(3,1) Catering and Banquet Organization: PR: FSS 2221C and Junior standing or C.I. Methods and procedures for successful on and off premise catering functions. Emphasis on food and beverage preparation, menu planning, service and sales techniques. Laboratory class. <i>Occasional.</i> M&S fee: \$45.00</p>
<p>FRE 3954 CAH-LANG 6(6,0) Study Abroad in the Caribbean: PR: FRE 2201 or equivalent. Travel through Caribbean islands, studying the diversity within the Creole cultures. May be repeated for credit. <i>Occasional.</i></p>	<p>FRW 3770 CAH-LANG 3(3,0) Francophone Literature: PR: FRE 2201. The literature of the Francophone world. Students will read, analyze and discuss literary works written in French. <i>Even Spring.</i></p>	<p>GEB 1091C BA-BUS 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Business providing a foundation of leadership, scholarship, and service regarding disciplines in the college. <i>Fall, Spring.</i></p>
<p>FRE 4421 CAH-LANG 3(3,0) Advanced French Conversation: PR: FRE 3760. Advanced conversation on directed topics from various disciplines: literature, art, psychology, philosophy, music, business, and the sciences. <i>Fall.</i></p>	<p>FRW 4281 CAH-LANG 3(3,0) 20th Century French Novels: PR: FRW 3100 or FRW 3101 or equivalent. Contemporary French Novel. Will focus on post-war authors, both traditional and avant-garde, such as Bazin, Beckett, Butor, Camus, Mauriac, Malraux and Sarraute. <i>Occasional.</i></p>	<p>GEB 2011 BA-MAN 3(3,0) Management: PR: Junior standing. For non-business majors only. The interdisciplinary application of the managerial functions of planning, organizing, leading, and controlling. For Non-Business Major ONLY. <i>Occasional.</i></p>
<p>FRE 4422 CAH-LANG 3(3,0) Advanced French Composition: PR: FRE 3420. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. <i>Spring.</i></p>	<p>FRW 4310 CAH-LANG 3(3,0) Seventeenth Century French Theatre: PR: FRW 3100. Corneille, Racine, and Moliere. A study of the lives and principal works of the authors. <i>Occasional.</i></p>	<p>GEB 2350 BA-MAR 3(3,0) Foundations of Business: Introduction to the U.S. business system and the role it plays in a global economy. <i>Fall.</i></p>
<p>FRE 4471 CAH-LANG 6(6,0) Advanced French Cultural Studies Abroad: PR: FRE 2201 or equivalent, or C.I. Students will develop strong conversational skills at the third year level while studying French culture abroad. May be repeated for credit. <i>Occasional.</i></p>	<p>FRW 4324 CAH-LANG 3(3,0) 20th Century French Drama: PR: FRW 3100 or FRW 3101 or equivalent, or C.I. Concentration on traditional and avant-garde theater after WWII, such as the works of Beckett, Camus, Claudel, Giraudoux, Ionesco, and Sartre; different literary approaches will also be used. <i>Occasional.</i></p>	<p>GEB 3031 BA-MAN 4(4,0) The Cornerstone Course: PR: Junior standing and business major or minor. ACG 2071, ECO 2013, ECO 2023, and CGS 2100C. An orientation to opportunities and challenges facing managers in contemporary business organizations. Introduces competencies of team work, communication, creative thinking, and adapting to change. <i>Fall, Spring.</i></p>
<p>FRE 4500 CAH-LANG 3(3,0) French Civilization and Culture: PR: FRE 3420. A survey analyzing development of key elements of French life: its historical, artistic, intellectual, scientific, and spiritual contributions to the world via readings, lectures, films, and other media. Conducted in French. <i>Occasional.</i></p>	<p>FRW 4440 CAH-LANG 3(3,0) French Literature of the Eighteenth Century: PR: FRW 3100. The philosophical movement: Montesquieu, Vauvenargues, Voltaire, Diderot, Buffon. <i>Odd Fall.</i></p>	<p>GEB 3113 BA-MAN 3(3,0) How to Start a Business: PR: Sophomore Standing, ECO 2013. Provides background and tools necessary to understand and participate in the entrepreneurial process within a large company, new venture, or growing a small business. <i>Occasional.</i></p>
<p>FRE 4503 CAH-LANG 2(2,0) Quebecois Civilization: PR: 2 years of college level French or equivalent. An introduction to the main epochs and events in the history of the French civilization in North America with particular emphasis on Quebec. <i>Occasional.</i></p>	<p>FRW 4532 CAH-LANG 3(3,0) French Romanticism: PR: FRW 3100. Great poets and dramatists of the Romantic Movement: Hugo, Lamartine, Vigny, Musset, and others. <i>Occasional.</i></p>	<p>GEB 3356 BA-FIN 4(4,0) Introduction to International Business: PR: Junior standing and ACG 2071, ECO 2013 and ECO 2023. Understanding the interdependence of globalized world economy and similarities between domestic and international business domains. <i>Fall, Spring.</i></p>
<p>FRE 4782 CAH-LANG 2(2,0) Advanced French Phonetics and Diction: PR: 2 years of college level French or equivalent. Intensive exercises in French phonetics and diction with both prose and poetry with particular emphasis on difficulties for speakers of English. <i>Occasional.</i></p>	<p>FRW 4552 CAH-LANG 3(3,0) Nineteenth Century French Literature: PR: FRW 3101. Realism and naturalism. <i>Occasional.</i></p>	<p>GEB 3356H BA-FIN 4(4,0) Introduction to International Business - Honors: PR: Junior standing, permission of Honors, ACG 2071, ECO 2013, and ECO 2023. Understanding the interdependence of globalized world economy and similarities between domestic and international business domains. Same as GEB 3356 with honors level content. <i>Occasional.</i></p>
<p>FRT 4552 CAH-LANG 3(3,0) Structural Analysis of Beckett's Watt: PR: ENC 1102. An intense study of textual criticism and explications and linguistic analysis of literature with the primary focus on the novel. Course will be taught in English. <i>Occasional.</i></p>	<p>FRW 4820 CAH-LANG 3(3,0) Stylistics: PR: FRE 3420 or equivalent. An intense study of textual criticism. An examination of the relationship between language and literature: explications and linguistic analysis of literary texts. <i>Occasional.</i></p>	<p>GEB 3814 BA-MAN 3(3,0) Essentials of Human Resource Management for Non-Business Majors: PR: MAN 3025. Provides non-business majors with a review of basic human resource management practices and policies and the organizational role of the HRM function. <i>Occasional.</i></p>
<p>FRW 3100 CAH-LANG 3(3,0) Survey of French Literature I: PR: FRE 2201 or equivalent. Main literary currents and works from the Middle Ages through the 18th century. <i>Fall.</i></p>	<p>FSS 2221C RCHM-HOS 3(3,1) Quantity Food Preparation: Basic principles of food and beverage preparation, service, and menu development. <i>Fall, Spring.</i> M&S fee: \$45.00</p>	
<p>FRW 3101 CAH-LANG 3(3,0) Survey of French Literature II: PR: FRE 2201 or equivalent. Main literary currents and works of the 19th and 20th centuries. <i>Spring.</i></p>	<p>FSS 3008 RCHM-HOS 3(3,0) Culture and Cuisine: PR: FSS 2221C and HFT 3263. The major historical and geographical developments that have affected the creation of the cuisines of the world. <i>Spring.</i></p>	

<p>GEB 3815 BA-MAN 3(3,0) Employee Training for Non-Business Majors: PR: MAN 3025. Employee training needs and practices as performed by supervisors and managers under the direction of organizational specialists. Designed for non-business majors. <i>Occasional.</i></p>	<p>GER 1121 CAH-LANG 4(4,1) Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120. <i>Fall, Spring.</i></p>	<p>GER 3760 CAH-LANG 3(3,0) Advanced German Oral Communication: PR: GER 2201 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. <i>Even Fall.</i></p>
<p>GEB 4111 BA-MAN 3(3,0) New Venture Finance: PR: FIN 3403. Provides hands-on processes for developing financial information necessary such as budgets and pro forma financial statements to start up a new venture. <i>Odd Fall, Even Spring.</i></p>	<p>GER 1121H CAH-LANG 4(4,1) Honors Elementary German Language and Civilization II: PR: GER 1120H or equivalent and permission of Honors. Continuation of GER 1120H, with honors-level content. <i>Occasional.</i></p>	<p>GER 3780 CAH-LANG 3(3,0) German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation. <i>Occasional.</i></p>
<p>GEB 4117 BA-MAN 3(3,0) Business Plan Preparation: PR: MAN 4802. Develop a new venture plan evolving from an original concept through a process that incorporates all the elements of a professionally written business proposal. <i>Fall, Spring.</i></p>	<p>GER 2200 CAH-LANG 3(3,1) Intermediate German Language and Civilization I: PR: GER 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Fall, Spring.</i></p>	<p>GER 4422 CAH-LANG 3(3,0) Advanced German Grammar: PR: GER 3760, or any other 3000 level German course. An accelerated grammar course designated for advanced students of the German language. <i>Occasional.</i></p>
<p>GEB 4358 BA-FIN 3(3,0) International Negotiations and Transactions: PR: Finance major, Junior standing and admission to CBA. Focuses on providing an understanding of the concepts and skills required for international negotiations and transactions. <i>Occasional.</i></p>	<p>GER 2201 CAH-LANG 3(3,1) Intermediate German Language and Civilization II: PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization. <i>Spring.</i></p>	<p>GER 4510 CAH-LANG 3(3,0) Life and Culture in Nazi Germany: PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German. <i>Occasional.</i></p>
<p>GEB 4361 BA-FIN 3(3,0) Business in the International Environment: PR: Finance major, FIN 3403, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector. <i>Occasional.</i></p>	<p>GER 2210 CAH-LANG 3(3,0) Intensive German Conversation: PR: GER 1121 or C.I. Practical use of the language, leading toward fluency and correctness in speaking. <i>Occasional.</i></p>	<p>GER 4520 CAH-LANG 3(3,0) Modern Germany: PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to unification and today's Germany. <i>Occasional.</i></p>
<p>GEB 4363 BA-FIN 3(3,0) Export and Import Management: PR: Finance major, Junior standing and admission to CBA. Focuses on the management of export/import businesses and provides students with knowledge about international trade. <i>Occasional.</i></p>	<p>GER 2240 CAH-LANG 3(3,0) German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice. <i>Occasional.</i></p>	<p>GEW 3100 CAH-LANG 3(3,0) Survey of German Literature I: PR: GER 2201 or equivalent. Main literary currents and works from the Middle Ages through 19th Century Romanticism. <i>Occasional.</i></p>
<p>GEB 5941 BA-BUS 1.5(1.5,0) Professional Business Practicum: PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the MBA program without such experience. <i>Occasional.</i></p>	<p>GER 2270 CAH-LANG 6(6,0) Intermediate German Study Abroad: PR: GER 1121 or equivalent. Intermediate German language and culture taught in the native environment. <i>Occasional.</i></p>	<p>GEW 3101 CAH-LANG 3(3,0) Survey of German Literature II: PR: GER 2201 or equivalent. Main literary currents and works from 19th Century Realism to the present. <i>Occasional.</i></p>
<p>GEO 1200 ECS-CEE 3(3,0) Physical Geography: Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution. <i>Fall, Spring.</i></p>	<p>GER 2271 CAH-LANG 2(2,0) Modern German Civilization Abroad I: PR: One year of College-level German. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. <i>Occasional.</i></p>	<p>GEW 3370 CAH-LANG 3(3,0) Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries. <i>Occasional.</i></p>
<p>GEO 2370 ECS-CEE 3(3,0) Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States. <i>Fall, Spring.</i></p>	<p>GER 3102 CAH-LANG 3(3,0) Germany - Past to Present: PR: GER 3760 or GER 3420 or equivalent. Cultural development that shaped modern Germany. Students will read and discuss selected texts from different literary periods and view the influences they had on culture and daily life. Course conducted in German. <i>Occasional.</i></p>	<p>GEW 3480 CAH-LANG 3(3,0) German Post-War Literature: PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II. <i>Occasional.</i></p>
<p>GEO 3471 COS-POLS 3(3,0) World Political Geography: Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy. <i>Fall, Spring.</i></p>	<p>GER 3272 CAH-LANG 2(2,0) Modern German Civilization Abroad II: PR: GER 2201 or equivalent. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. <i>Occasional.</i></p>	<p>GEW 4482 CAH-LANG 3(3,0) German Children's Literature: PR: GER 2200. A look into the history of German children's literature with a concentration on works after World War II. <i>Occasional.</i></p>
<p>GER 1005 CAH-MUSIC 1(0,1) German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretti. <i>Odd Spring.</i></p>	<p>GER 3420 CAH-LANG 3(3,0) Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition. <i>Occasional.</i></p>	<p>GEW 4531 CAH-LANG 3(3,0) The Age of Goethe and Schiller: PR: GER 2201. Selected texts of Goethe and Schiller are examined, with particular attention to their relationship to both German classicism and German romanticism. <i>Occasional.</i></p>
<p>GER 1120 CAH-LANG 4(4,1) Elementary German Language and Civilization I: Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. <i>Fall, Spring.</i></p>	<p>GER 3440 CAH-LANG 3(3,0) Business German I: PR: GER 2200. Introduction to German business language and practices. <i>Occasional.</i></p>	<p>GEY 3001 HPA-SOWK 3(3,0) Gerontology: An Interdisciplinary Overview: PR: Junior standing or C.I. Study of aging from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit. <i>Fall.</i></p>
<p>GER 1120H CAH-LANG 4(4,1) Honors Elementary German Language and Civilization I: PR: Permission of Honors. Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors level content. <i>Occasional.</i></p>	<p>GER 3441 CAH-LANG 3(3,0) Business German II: PR: GER 3440. Continuation of Business German I. <i>Occasional.</i></p>	<p>GEY 5007 CON-NURS 3(3,0) Women and Healthy Aging: PR: Graduate standing or senior undergraduate. The examination of the health promotion opportunities and bio-psycho-social challenges of women as they age. <i>Spring.</i></p>
<p>GER 3470 CAH-LANG 6(6,0) Advanced German Study Abroad: PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment. <i>Occasional.</i></p>	<p>GER 3470 CAH-LANG 6(6,0) Advanced German Study Abroad: PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment. <i>Occasional.</i></p>	<p>GEY 5600 ED-TLP 3(3,0) Physiology of Aging: PR: BSC 2010C or PCB 3703C or PET 4351C or equivalent. The purpose of this course is to develop the student's understanding of the effects of human aging on various body systems. <i>Occasional.</i></p>

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<p>GEY 5648 HPA-SOWK 3(3,0) Gerontology: An Interdisciplinary Approach: PR: Graduate status or senior standing or C.I. The study of aging will be presented from man interdisciplinary and multidisciplinary approach spanning the social sciences and health. <i>Occasional.</i></p>	<p>GRA 3113C CAH-ART 3(2,4) Type & Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and publication. <i>Fall, Odd Spring.</i> M&S fee: \$15.00</p>	<p>HAI 1120 CAH-LANG 4(4,0) Elementary Haitian Language and Culture I: Introduction to Haitian culture through the major language skills: listening, speaking, reading and writing. <i>Occasional.</i></p>
<p>GIS 3043C UGRD-LIBERAL ST 3(2,2) GIS for Environmental Studies: PR: CGS 1060C and BSC 2010C, or C.I. Geographic Information Systems (GIS) technology for environmental analysis. GIS theory with training using ArcGIS, including environmental analysis and facility siting studies. <i>Odd Fall.</i></p>	<p>GRA 3151C CAH-ART 3(2,4) Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Pictorial and representational illustration using various media and techniques. <i>Occasional.</i></p>	<p>HAI 1121 CAH-LANG 4(4,0) Elementary Haitian Language and Culture II: PR: HAI 1120. A continuation of HAI 1120. <i>Occasional.</i></p>
<p>GIS 4035C ECS-CEE 3(2,2) Remote Sensing of the Environment: PR: GEO 1200 or C.I. Interpretation and application of remote sensor imagery to physical, economic, and urban analysis. <i>Occasional.</i></p>	<p>GRA 3801C CAH-ART 3(2,4) Intermediate Computer Graphic Design: PR: Acceptance in Graphic Design specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 2140C, and a satisfactory portfolio review or C.I. The use of computer graphic systems for electronic publication. <i>Fall.</i></p>	<p>HBR 1120 CAH-JUD 4(4,0) Elementary Modern Hebrew Language and Culture I: Designed to initiate the student to the major language skills: listening, speaking, reading and writing, as well as to constitute an introduction to Israeli culture. <i>Fall.</i></p>
<p>GIS 4301C UGRD-LIBERAL ST 4(2,2) Advanced GIS Applications in Environmental Studies: PR: GIS 3043C. GIS analysis techniques used in environmental science, including raster overlay site suitability modeling, least-cost optimum paths, 3D digital elevation models, network routing and geostatistical analysis. <i>Occasional.</i></p>	<p>GRA 4119C CAH-ART 3(2,4) Packaging Design and Display Systems: PR: Acceptance in Graphic Design Concentration and GRA 3100C. The visual concepts of packaging design and display systems. Exploration of materials, structures, function and semantic aspects of the packaging industry. <i>Occasional.</i></p>	<p>HBR 1121 CAH-JUD 4(4,0) Elementary Modern Hebrew Language and Culture II: PR: HBR 1120 or equivalent. Continuation of HBR 1120. <i>Spring.</i></p>
<p>GLY 1030 COS-CHEM 3(3,0) Geology and its Applications: Geologic principles, applications, and hazards including: gemstones, rock cycle, moving continents, mountain building, metal ores, fossil fuels, groundwater, sinkholes, beach erosion, landslides, earthquakes, tidal waves, volcanism. <i>Fall, Spring.</i></p>	<p>GRA 4154C CAH-ART 3(2,4) Advanced Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3151C, and a satisfactory portfolio review or C.I. Illustration problems involving the use of advanced level techniques in illustration media. May be repeated for credit. <i>Occasional.</i> M&S fee: \$45.00</p>	<p>HBR 2200 CAH-JUD 3(3,0) Intermediate Modern Hebrew I: PR: HBR 1121 or equivalent. Designed to continue the study of Modern Hebrew; increase proficiency in conversation, reading and writing skills, and further expose students to Israeli culture. <i>Occasional.</i></p>
<p>GRA 2101C CAH-ART 3(2,4) Introduction to Computer Art: PR: ART 2820 or C.I. Priority given to students whose major requires this course. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>GRA 4196C CAH-ART 3(2,4) Advanced Graphic Design: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 3151C or ART 3332C, and a satisfactory portfolio review, or C.I. Practical studio problems, with emphasis on organization of visual design elements. <i>Fall.</i> M&S fee: \$43.50</p>	<p>HBR 2201 CAH-JUD 3(3,0) Intermediate Modern Hebrew II: PR: HBR 2200. Further development of modern Hebrew language skills in listening, speaking, reading, and writing. <i>Occasional.</i></p>
<p>GRA 2101H CAH-ART 3(2,4) Honors Introduction to Computer Art: PR: ART 2820 and Consent of Honors. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems. With Honors content. <i>Occasional.</i> M&S fee: \$15.00</p>	<p>GRA 4197C CAH-ART 3(2,4) Special Problems in Graphic Design: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4320C, and a satisfactory portfolio review, or C.I. Advanced problems in visual design and reproduction. May be repeated for credit. <i>Spring.</i> M&S fee: \$15.00</p>	<p>HBR 3250 CAH-JUD 3(3,0) Biblical Hebrew: PR: HBR 1121 or C.I. Grammatical and syntactical structure of Biblical Hebrew. <i>Occasional.</i></p>
<p>GRA 2111C CAH-ART 3(2,4) Graphic Design I: PR: ART 2201C. Basic principles, concepts, and techniques in graphic design and art for visual publication. <i>Occasional.</i> M&S fee: \$15.00</p>	<p>GRA 4802C CAH-ART 3(2,4) Advanced Computer Graphic Design: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4320C, and a satisfactory portfolio review or C.I. Problems involving the use of advanced computer graphic systems for electronic publication. <i>Odd Fall.</i> M&S fee: \$15.00</p>	<p>HBR 3410 CAH-JUD 3(3,0) Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent, C.I. Study and practice of contemporary conversational Israeli Hebrew. <i>Occasional.</i></p>
<p>GRA 2140C CAH-ART 3(2,4) Computer Graphic Design: PR: Acceptance in Graphic Design Concentration, GRA 3100C, ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Problems involving the use of computer graphic systems for visual publication. <i>Occasional.</i> M&S fee: \$15.00</p>	<p>GRE 1120H CAH-LANG 4(4,0) Elementary Greek Language and Civilization I: PR: Permission of Honors. Introduces students to Classical Greek Literature and civilization through the study of grammar and syntax and extensive readings of Greek texts. <i>Occasional.</i></p>	<p>HFT 1000 RCHM-TEA 3(3,0) Introduction to the Hospitality and Tourism Industry: An orientation to the hotel, restaurant, and travel industry, and its history, structure, and operating procedures. <i>Fall, Spring.</i></p>
<p>GRA 2190C CAH-ART 3(2,4) Design in Advertising: PR: ART 2201C. Principles and techniques. Not open to art majors specializing in graphic design. Intended for visual arts education majors and general university elective. <i>Occasional.</i> M&S fee: \$5.00</p>	<p>GRE 1121H CAH-LANG 4(4,1) Elementary Greek Language and Civilization II: PR: GRE 1120H and permission of Honors. Continuation of Elementary Greek I. <i>Occasional.</i></p>	<p>HFT 1350 RCHM-TEA 3(3,0) Career & Promotional Development in Golf: PR: HFT 1357. The developmental sequence of lifelong programs for juniors, women, and seniors.: in the golf industry. <i>Spring.</i></p>
<p>GRA 3100C CAH-ART 3(2,4) Intermediate Graphic Design I: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Methods related to studio projects in graphic design. <i>Fall.</i> M&S fee: \$15.00</p>	<p>GRE 2220H CAH-LANG 4(4,0) Introduction to Greek Literature: PR: GRE 1121H and permission of Honors. Readings in selected original Greek texts, e.g., Plato's apology. May be repeated for credit. <i>Occasional.</i></p>	<p>HFT 1356 RCHM-TEA 3(3,0) Concepts and Practices of Golf Associations: PR: Admission to Professional Golf Management Program; CR HFT 1000. Philosophies and ideals of the Professional Golfers Association of America and the importance of the rules of golf as related to rules decisions. <i>Fall.</i></p>
<p>GRA 3112C CAH-ART 3(2,4) Intermediate Graphic Design II: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C and a satisfactory portfolio review or C.I. Further development of studio techniques and problems in graphic design with emphasis on digital prepress. <i>Spring.</i> M&S fee: \$43.50</p>		<p>HFT 1357 RCHM-TEA 3(3,0) Golf Event Operations: PR: HFT 1356. Develop, plan, and organize golf tournaments of all types. <i>Even Spring.</i></p>
		<p>HFT 2220 RCHM-TEA 3(3,0) Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting. <i>Fall, Spring.</i></p>
		<p>HFT 2254 RCHM-HOS 3(3,0) Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, house-keeping, engineering, front desk, and guest services. <i>Fall, Spring.</i></p>
		<p>HFT 2359 RCHM-TEA 3(3,0) Design & Maintenance of Golf Equipment: PR: HFT 1350. Knowledge and application of golf club design principles and club repair procedures. <i>Occasional.</i></p>

HFT 2403 RCHM-HOS 3(3,0)
Hospitality Industry Financial Accounting: Basic understanding of financial accounting and specifically hospitality industry accounting concepts and procedures used in hotels, restaurants and clubs. *Fall, Spring.*

HFT 2500 RCHM-TEA 3(3,0)
Hospitality and Tourism Marketing: PR: HFT 1000. The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing. *Fall, Spring.*

HFT 2750 RCHM-TEA 3(3,0)
The Event Industry: Overview of meetings, conventions, special events and exhibitions including the roles of organizations and people involved in the businesses that comprise this industry. *Fall, Spring.*

HFT 3263 RCHM-HOS 3(3,0)
Restaurant Management: PR: HFT 1000, FSS 2221C, and junior standing or C.I. Discussion of the topics integral for the successful management of restaurant and food service organizations. *Fall, Spring.*

HFT 3273 RCHM-HOS 3(3,0)
Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare operations and ownership. *Fall, Spring.*

HFT 3285 RCHM-HOS 3(3,0)
International Restaurant Corporation Management: PR: HFT 3263. The specific principles of managing a restaurant corporation in the international foodservice marketplace. *Occasional.*

HFT 3313 RCHM-HOS 3(3,0)
Hospitality Physical Plant Management: PR: Junior standing. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry. *Spring.*

HFT 3353 RCHM-TEA 3(3,0)
Golf Planning & Operations I: PR: HFT 2359. Customer relations concepts, an effective golf instruction program, and characteristics of effective merchandising & inventory procedures. *Occasional.*

HFT 3354 RCHM-TEA 3(3,0)
Agronomy for Golf Course Management: PR: HFT 3353. Primary roles and responsibilities of the golf course superintendent. *Occasional.*

HFT 3355 RCHM-TEA 3(3,0)
Golf Planning & Operations II: PR: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models. *Occasional.*

HFT 3374 RCHM-TEA 3(3,0)
Multi Media Applications in Exhibitions: PR: HFT 1000, HFT 2750, or C.I. The management of the audio and visual process of a large exhibition. *Occasional.*

HFT 3431 RCHM-HOS 3(3,0)
Hospitality industry Managerial Accounting: PR: HFT 2403 and junior standing or C.I. Presentation, interpretation, and analysis of internal and external hospitality industry financial reports affecting management decisions using hospitality industry systems of accounting. *Fall, Spring.*

HFT 3443 RCHM-TEA 3(3,0)
Event Technology: PR: HFT 1000 and HFT 2750; or C.I. Use of technology in the event industry to solidify processes and help people be more productive. Covers types of technology for different event processes. *Occasional.*

HFT 3444 RCHM-HOS 3(3,0)
Hospitality Information Systems: PR: CGS 2100C, HFT 2254, and HFT 3263; or C.I. Focuses on management functions and practices, information systems and technology in hospitality. Higher tech for higher touch building on computer literacy and operation knowledge. *Fall, Spring.*

HFT 3471 RCHM-HOS 3(3,0)
Hospitality Enterprises I: PR: Financial Accounting, Managerial Accounting, Computer Competency, Junior standing. Acquaints students with presentation, interpretation and analysis of hotel financial reports. Presents hotel operations cost controls. Explores hospitality MIS. *Occasional.*

HFT 3511 RCHM-TEA 3(3,0)
Convention and Conference Sales: PR: HFT 2750, HFT 2500 and junior standing or C.I. In-depth understanding of the sales process for the convention market. Covers the people, methods, materials and equipment needed. *Fall.*

HFT 3512 RCHM-TEA 3(3,0)
Event Promotion: PR: HFT 1000, HFT 2750, and HFT 2500; or C.I. Promotion of events to sponsors, attendees, exhibitors and other participants. *Occasional.*

HFT 3515 RCHM-HOS 3(3,0)
Reservations Sales & Marketing: PR: HFT 1000, HFT 2500 or C.I. Provides insight to all aspects of planning, performing and measuring room sales activities. Focus will be to manage all distribution channels to maximize profitability. *Odd Fall.*

HFT 3540 RCHM-HOS 3(3,0)
Guest Services Management I: PR: Junior standing or C.I. The study of making decisions from the guest's point of view in the hospitality industry. *Fall, Spring.*

HFT 3574 RCHM-HOS 3(3,0)
Food Service Marketing Advertising and Promotion Management: PR: HFT 2500 and HFT 3263. Covers pricing, promotion, menu and product development. *Occasional.*

HFT 3600 RCHM-HOS 3(3,0)
Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry. *Fall, Spring.*

HFT 3610 RCHM-HOS 3(3,0)
Law and Restaurant Management: PR: HFT 3600 and HFT 3263. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed. *Occasional.*

HFT 3654 RCHM-HOS 3(3,0)
Franchising in the Restaurant Industry: PR: Restaurant Management Core or C.I. Addresses the legal requirements for franchising, contract rates, responsibilities, size, structure, and history. *Fall.*

HFT 3670 RCHM-TEA 3(3,0)
Hospitality and Event Risk Management: PR: HFT 1000 and HFT 2750; or C.I. Risk, crisis, and liability issues that may arise in the planning and management of special events, meetings, conventions, and exhibitions. *Occasional.*

HFT 3700 RCHM-TEA 3(3,0)
Tourism Management: PR: HFT 1000 and junior standing or C.I. Analysis of the tourism phenomenon in contemporary societies. An exploration of major concepts about tourism as an inter-linked industry composed of many sectors within both the private and public sectors. *Fall, Spring.*

HFT 3741 RCHM-TEA 3(3,0)
Meeting Management: PR: HFT 4753 and HFT 4754. The process of meeting planning, from setting objectives to analyzing the success of the event. *Fall, Spring.*

HFT 3770 RCHM-TEA 3(3,0)
Cruise Line Operations and Management: PR: HFT 1000 and junior standing or C.I. Understanding of cruise company operations and management. Shipboard organization and delivery of the cruise product to the guest. *Occasional.*

HFT 3784 RCHM-TEA 3(3,0)
Amusement Technology: PR: HFT 1000 HFT 4755. Exploration of various technologies utilized by the leisure-based entertainment industry. Includes amusement devices, operational and IT software packages as well as ride and show systems. *Spring.*

HFT 3785 RCHM-TEA 3(3,0)
Management of Gaming Enterprises: PR: Junior level standing. An in-depth study of gaming-based organizations including cruise ships, Indian reservation casinos, and others. The history and development of gaming organizations, the economics, social, and cultural impact of gaming and managerial challenges and opportunities in the industry. *Occasional.*

HFT 3792 RCHM-TEA 3(3,0)
Event Design and Production: PR: HFT 1000, HFT 2750, HFT 3443, and HFT 3670; or C.I. The many aspects of event production, including art, design, and staging. Provides hands on practical experience. *Occasional.*

HFT 3798 RCHM-TEA 3(3,0)
Fairs and Festivals: PR: HFT 1000 and HFT 2750; or C.I. Evolution of modern day exhibitions and trade shows from fairs and festivals. *Occasional.*

HFT 3807 RCHM-HOS 3(3,0)
Multi-Unit Food Service Operations: PR: HFT 1000 and junior standing or C.I. The strategy and managerial aspects of chain restaurant management, including organization development, brand building, and industry segments. *Spring.*

HFT 3834 RCHM-HOS 3(3,0)
Topics in Restaurant and Foodservice Management: PR: HFT 3263 and FSS 2221C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry. *Odd Spring.*

HFT 3868 RCHM-HOS 3(3,0)
History and Culture of Wine: PR: World History course or C.I. The role that wine has played in the history, culture, and religion of diverse civilizations. *Fall, Spring.* M&S fee: \$45.00

HFT 3933 RCHM-RCHM 1(1,0)
Distinguished Lectures in Hospitality Management: PR: HFT 1000. Junior standing. First hand introduction to hospitality leaders, their perspectives on the segments they represent, and the breadth of those segments. Graded S/U. *Fall, Spring.*

HFT 3949 RCHM-RCHM 0-5(0,1-5)
Cooperative Education: Provides paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major-related learning objectives. *Fall, Spring.*

HFT 4250C RCHM-HOS 3(3,1)
Hospitality Operations: PR: Junior Standing or C.I. An integration of lodging and food service operations providing students with a comprehensive knowledge of these related content areas; food service lab component. *Occasional.*

HFT 4253 RCHM-HOS 3(3,0)
Hotel Operations: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Provides the advanced student with first-hand knowledge of the day-to-day operations of a hotel property. Reconciles conflicts between theory and practice in a real life hotel. *Spring.*

HFT 4255 RCHM-HOS 3(3,0)
Advanced Hotel Development: PR: HFT 4462, HFT 4473, or C.I. Hotel investment practices, risk management and other investment decision factors. *Occasional.*

UCF Courses and Descriptions

HFT 4266	RCHM-HOS	3(3,0)	HFT 4343	RCHM-HOS	3(3,0)	HFT 4561	RCHM-TEA	3(3,0)
Restaurant Brand Management: PR: HFT 3263 and junior standing or C.I. Exploration of the principles of brand management for the corporate restaurant industry. <i>Occasional.</i>			Hospitality Facilities Planning and Design: PR: HFT 1000, HFT 2254 and junior standing; or C.I. Principles of facility planning, layout and design for dining, kitchen, guest room, lobby, and service areas. <i>Odd Fall.</i>			Destination Marketing: PR: HFT 2500 and HFT 3700. Development of destination-oriented marketing goals and strategies with an emphasis on integrated destination marketing. Covers trends and challenges influencing destination marketing. <i>Occasional.</i>		
HFT 4268	RCHM-HOS	3(3,0)	HFT 4358	RCHM-TEA	3(3,0)	HFT 4645	RCHM-HOS	3(3,0)
Case Studies in Restaurant Management: PR: HFT 3263 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and food service management. <i>Fall, Spring.</i>			Golf Course Facility Design: PR: HFT 3355. Golf course and golf facility design from a functional perspective and from a perspective of form. <i>Occasional.</i>			Restaurant Real Estate, Site Selection, and Modeling: PR: Hospitality and Restaurant Management Cores or C.I. Explains the management systems for finding, evaluating, securing, and developing dynamic restaurant real estate locations. <i>Occasional.</i>		
HFT 4269	RCHM-HOS	3(3,0)	HFT 4375	RCHM-TEA	3(3,0)	HFT 4717	RCHM-HOS	3(3,0)
Case Studies in Multi-Unit Restaurant Management: PR: HFT 3263. Application of case study methodology to advanced topics in chain or multi-unit restaurant and food-service operations. <i>Fall.</i>			Advanced Trade Show Management: PR: HFT 4754 or C.I. Trade show installation, floor management and dismantling/shipping. Pre-event logistics and on-site management of critical success factors. <i>Occasional.</i>			Hospitality Operations II: PR: Junior Standing. A survey of tourism, travel agency, airline, convention and trade show operations from both the U.S. and international perspective. <i>Occasional.</i>		
HFT 4274	RCHM-HOS	3(3,0)	HFT 4413	RCHM-HOS	3(3,0)	HFT 4722	RCHM-TEA	3(3,0)
Vacation Ownership Resort Management: PR: HFT 1000, HFT 3273, HFT 4522 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the management of vacation resorts. <i>Occasional.</i>			Technology Applications for Hospitality Management: PR: HFT 3444 Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations. <i>Odd Spring.</i>			Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations. <i>Occasional.</i>		
HFT 4275	RCHM-HOS	3(3,0)	HFT 4425	RCHM-HOS	3(3,0)	HFT 4735	RCHM-TEA	3(3,0)
Development of Vacation Ownership Resorts: PR: HFT 3273 and HFT 4473 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the planning and development of vacation resorts. <i>Occasional.</i>			Financial Analysis for Restaurant Managers: PR: HFT 2403, HFT 3431, and HFT 3263. Topics of unit level economics, budgeting, valuation of restaurant enterprises, ownership models, franchising finance, and securing access to capital through debt and equity markets. <i>Occasional.</i>			Tourism Geography: PR: HFT 3700 and junior standing or C.I. A seminar discussing the main geographical tourism destinations in U.S. and the World. <i>Fall, Spring.</i>		
HFT 4277	RCHM-TEA	3(3,0)	HFT 4432	RCHM-HOS	3(3,0)	HFT 4736	RCHM-TEA	3(3,0)
Yacht, Country, And City Club Management: PR: HFT 1000 and junior standing or C.I. A study of the history, development, operation and management of Yacht, Country and City Clubs. Emphasis will be placed on operational aspects. <i>Fall.</i>			Hospitality Industry Auditing: PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides basic fundamentals of eliminating fraud and saving money through proper internal controls in the hospitality industry. <i>Occasional.</i>			Destination Management: PR: HFT 3700. Principles and issues related to destination management; strategies and processes involving design, operations, distribution, networking and impact of tourism at the destination. <i>Occasional.</i>		
HFT 4281	RCHM-HOS	3(3,0)	HFT 4442	RCHM-HOS	3(3,0)	HFT 4752	RCHM-TEA	3(3,0)
Restaurant Leadership Strategies and Tactics: PR: Hospitality Management Core and Restaurant Management Core or C.I. An analysis of the leadership styles of restaurant industry founders and executives. <i>Fall, Spring.</i>			Vacation Ownership Reservations and Database Systems: PR: HFT 1000, HFT 3273, HFT 4522, HFT 4274 or C.I. Tactics and strategies necessary for owner exchange, information transmittal, and financial reporting. <i>Occasional.</i>			Guest Services Management II: PR: HFT 3540 or C.I. Using decision theory and analytical techniques to create and maintain quality guest services. The emphasis is on strategic implications of quality service management. <i>Occasional.</i>		
HFT 4284	RCHM-HOS	3(3,0)	HFT 4453	RCHM-HOS	3(3,0)	HFT 4753	RCHM-TEA	3(3,0)
Training and Employee Performance in the Foodservice Industry: PR: HFT 2220; HFT 3540; HFT 4266; HFT 4268; HFT 4343; FSS 3124; FSS 4135. Teaching and training methodologies relative to the service positions in a restaurant. Encompasses training techniques, guest interaction, and assessment of service performance. <i>Occasional.</i>			Food, Beverage, and Labor Cost Controls: PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides students with basic fundamentals of food, beverage, and labor cost control systems in the hospitality industry. <i>Fall, Even Spring.</i>			Convention and Conference Services: PR: HFT 3511 and junior standing or C.I. Provides an in-depth understanding of the acquisition and management of services (food and beverage, audio visual, transportation, etc.) integral to effective convention and conference operations. <i>Spring.</i>		
HFT 4286	RCHM-TEA	3(3,0)	HFT 4462	RCHM-HOS	3(3,0)	HFT 4754	RCHM-TEA	3(3,0)
Hospitality Communications: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Communication exchanges in the hospitality industry for effective presentations, conflict resolution, and report writing. Emphasis on inter departmental dependence by managers in hospitality enterprises in the areas of reading, writing, speaking, and listening. <i>Fall, Spring.</i>			Hospitality Industry Finance: PR: HFT 3431 and junior standing or C.I. Working knowledge of finance concepts and theories applicable to the Hospitality Industry including evaluating management contracts, franchising, and leasing. <i>Odd Fall, Odd Spring.</i>			Exhibit and Trade Show Operations: PR: HFT 2750 and junior standing or C.I. Provides an in-depth study of exhibit and trade show operations. Focuses on both supply and demand pertaining to exhibits and trade shows. <i>Fall, Spring.</i>		
HFT 4294	RCHM-HOS	3(3,0)	HFT 4473	RCHM-HOS	3(3,0)	HFT 4755	RCHM-TEA	3(3,0)
Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry. <i>Occasional.</i>			Hotel Development Analysis: PR: HFT 3431 and junior standing or C.I. Review of methodological operation, financial, and marketing aspects of analysis for hotel development projects. <i>Even Fall.</i>			Theme Park and Attraction Management: PR: HFT 1000 and junior standing or C.I. An in-depth study of the theme park and attraction industry, focusing on resources, ride operations, merchandising, food services, and architectural design. <i>Fall, Spring.</i>		
HFT 4295	RCHM-TEA	3(3,0)	HFT 4522	RCHM-HOS	3(3,0)	HFT 4757	RCHM-TEA	3(3,0)
Leadership and Strategic Management in Hospitality Industry: PR: Completion of Hospitality Management Core program. Principles of strategic decision making in various hospitality and tourism organizations; lectures, class discussions, and group case analysis presentations. <i>Fall, Spring.</i>			Vacation Ownership Resort Sales Tactics and Strategies: PR: HFT 1000, HFT 3273 or C.I. Sales tactics and corporate strategies employed in the sales and marketing of vacation ownership properties. <i>Occasional.</i>			Event Management: PR: HFT 3443, HFT 3670, HFT 3792, HFT 3512, HFT 4802 and junior standing or C.I. Reviews the role and scope of events in the hospitality industry, as well as the process of planning, organizing, and managing events. <i>Fall, Spring.</i> M&S fee: \$37.00		
HFT 4298	RCHM-TEA	3(3,0)	HFT 4532	RCHM-TEA	3(3,0)	HFT 4758	RCHM-TEA	3(3,0)
Hospitality Business Consulting: PR: HFT 1000 and junior standing or C.I. A systematic approach to Hospitality Management. Students apply their cumulative knowledge in an active learning environment in a small hospitality operation. <i>Spring.</i>			Managing the Employee Experience in the Theme Park and Attraction Industry: PR: HFT 4755 and junior standing or C.I. Managing staffing needs, supervision, communication, legal compliance, and retention in the theme parks and attraction industry. <i>Fall.</i>			Contemporary Issues in the Theme Park and Attraction Industry: PR: HFT 4755 and junior standing or C.I. Examination of current issues in the theme park and attractions industry, including hands-on situation analysis. <i>Fall.</i>		

UCF Courses and Descriptions

HFT 4759	RCHM-TEA	3(3,0)	HFT 4894	RCHM-HOS	3(3,0)	HIM 4838	HPA-HP	5(0,15)
Product Development in Theme Parks and Attractions: PR: HFT 4755 and junior standing or C.I. The strategic management process associated with product development in the theme parks and attraction industry. <i>Spring.</i>			International Gastronomy: PR: FSS 2221C, HFT 3700, and C.I. A world view of culture and cuisine that includes an international travel component. May be used in the degree program a maximum of 2 times. <i>Spring.</i>			Management Affiliation: PR: All other required courses. Assignment to a selected health care facility serving in an administrative capacity under the direction of a Registered Record Administrator; lab exercises; comprehensive exam. <i>Fall, Spring.</i>		
HFT 4762	RCHM-TEA	3(3,0)	HFT 4949	RCHM-RCHM	0-5(0,1-5)	HIS 3462	CAH-HIST	3(3,0)
Current Practices in the Airline Industry: PR: Junior standing. A survey of the U.S. and International airline industry. Emphasis on the organization and management functions of the airlines. <i>Spring.</i>			Cooperative Education: Provides paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major-related learning objectives. <i>Fall, Spring.</i>			History of Science: PR: EUH 2000 and EUH 2001 or C.I. Examines past and present science, scientific thought, and the relationship between science and society. <i>Occasional.</i>		
HFT 4786	RCHM-TEA	3(3,0)	HIM 3006	HPA-HP	3(3,0)	HIS 3949	CAH-HIST	0(0,8)
Managing the Guest Experience in the Theme Park and Attraction Industry: PR: HFT 4755. The management of guest needs and expectations in theme parks and attractions. <i>Spring.</i>			Foundations of Health Information Management (HIM): PR: Acceptance into upper-division limited access HIM program or C.I. Foundation of profession; release of information; record analysis; numbering and filing systems; standards for long-term care; ambulatory care; and mental health records. <i>Fall, Spring.</i>			Cooperative Education in History: PR: Departmental permission required before registering. Cooperative education experience in history. Graded S/U. May be repeated for credit. <i>Occasional.</i>		
HFT 4787	RCHM-TEA	3(3,0)	HIM 3116C	HPA-HP	4(3,2)	HIS 4070	CAH-HIST	3(3,0)
Operational Issues in the Theme Park and Attraction Industry: PR: HFT 4755. Organizational structure and operational culture of theme parks and attractions. <i>Fall.</i>			Health Record Organization and Management: PR: HIM 3006. Nomenclatures/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization. <i>Spring.</i>			Oral History: PR: Either AMH 2010, AMH 2020 or C.I. Theories and practices of oral history. Field work required. <i>Occasional.</i>		
HFT 4791	RCHM-TEA	3(3,0)	HIM 3806L	HPA-HP	4(0,8)	HIS 4150	CAH-HIST	3(3,0)
Event Management II: PR: HFT 3670, HFT 3512, HFT 3443, HFT 3792, FSS 2221C, HFT 3802, and HFT 3757. Capstone course in event management. Students produce an event that has been planned in HFT 3757. <i>Occasional.</i> M&S fee: \$45.00			Professional Practice Experience I: PR: Admission to HIM program. CR: HIM 3006, HIM 3531 and HIM 3116C. Interdepartmental experience; master patient index; numbering and filing systems; assembly and analysis; incomplete record control; record storage; retention and retrieval; and release of information. <i>Fall, Spring.</i>			History and Historians: PR: C.I. A study of European and/or American historiography. May be used in the degree program a maximum of 2 times. <i>Fall, Spring.</i>		
HFT 4795	RCHM-TEA	3(3,0)	HIM 4226C	HPA-HP	5(3,4)	HIS 4935	CAH-HIST	3(3,0)
Entertainment Arts and Events: PR: HFT 2750 and HFT 4755 or C.I. A historical perspective of theme park, event, and attraction entertainment. Covers show development, event production, creative processes, casting, costuming, staffing, and evaluation. <i>Fall, Spring.</i>			Coding Procedures I: PR: HSC 3531 or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders. <i>Fall, Spring.</i>			Senior Seminar: PR: Senior standing, history major, and C.I. Research in history through sustained reading, writing, and discussion on a focused topic. May be repeated for credit. <i>Fall, Spring.</i>		
HFT 4796	RCHM-TEA	3(3,0)	HIM 4256C	HPA-HP	3(2,2)	HIS 4944	CAH-HIST	3(3,0)
International Events: PR: HFT 1000 and HFT 2750; or C.I. Considerations when planning events that are held outside of the United States or that attract a large number of participants from outside the United States. <i>Occasional.</i>			Coding Procedures II: PR: HSC 3531 or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; CPT/HCPCS; APCs; encoders. <i>Fall.</i>			Internship in Public History: PR: C.I. The Public History Internship is a one-semester course in which undergraduate history majors explore and gain experience in public history professions. <i>Fall, Spring.</i>		
HFT 4802	RCHM-TEA	3(3,0)	HIM 4344C	HPA-HP	4(3,2)	HIS 4970	CAH-HIST	3(3,0)
Catering Management: PR: HFT 3443, HFT 3670, HFT 3792, HFT 3512, FSS 2221C. Catering sales and operations. Emphasis on logistics, market segments, and service. <i>Fall, Spring.</i> M&S fee: \$45.00			Health Information Department Management: PR: HIM 3116C; HSA 4180 or MAN 3025; or C.I. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning. <i>Fall.</i>			Senior Thesis: Original research paper available to advanced history majors, topics to be selected in consultation with a directing professor. <i>Occasional.</i>		
HFT 4844	RCHM-HOS	3(3,0)	HIM 4506C	HPA-HP	3(2,2)	HIS 5067	CAH-HIST	3(3,0)
Sanitation in the Food Service Industry: PR: HFT 1000 and junior standing or C.I. Causes and prevention of food spoilage and food borne illnesses. Includes National Restaurant Association (NRA) certification. <i>Occasional.</i>			Quality Management: PR: HSC 3531 or C.I. Principles and mechanics of quality improvement; utilization review; case management and risk management. <i>Fall, Spring.</i>			Introduction to Public History: PR: 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. <i>Occasional.</i>		
HFT 4861C	RCHM-HOS	3(3,1)	HIM 4656C	HPA-HP	3(2,2)	HIS 5158	CAH-HIST	3(3,0)
Beverage Management: PR: Minimum age of 21 by the first day of class and junior standing. The origin production, storing, marketing, and control of beverages in the hospitality industry. <i>Spring.</i> M&S fee: \$45.00			Health Information Management Systems: PR: HSA 4191 or C.I. Vitalization of computerized information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts. <i>Fall, Spring.</i>			Classic and Contemporary Historical Thought: PR: Graduate status or senior standing or C.I. Course will explore work of important historians influenced by social theory to gain an understanding of their main concepts. <i>Occasional.</i>		
HFT 4864	RCHM-HOS	3(3,0)	HIM 4676	HPA-HP	3(3,0)	HLP 2701	ED-TLP	3(3,0)
Seminar in Quality Brewing and Fine Beer: PR: HFT 1000, HFT 3263. Minimum age of 21. The production and service of malt beverages. <i>Spring.</i> M&S fee: \$45.00			Professional Development and Issues in Health Information Management: PR: HIM 4344C, HIM 4506C. Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers. <i>Spring.</i>			Peer Education Training: PR: Sophomore standing and C.I. Strategies for teaching life skills and health education information for secondary students and college age peers. <i>Fall, Spring.</i>		
HFT 4865	RCHM-HOS	3(3,0)	HIM 4816L	HPA-HIM	4(0,8)	HLP 4722	ED-TLP	1(1,0)
Advanced Wine Management: PR: HFT 4866C or C.I. Advanced study of viticulture, enology and wine regions of the world. <i>Occasional.</i> M&S fee: \$45.00			Professional Practice Experience II: PR: HIM 3806L and CR: HIM 4226C, HIM 4256C, HIM 4344C, and HIM 4506C. Transcription; coding; quality improvement; risk management; human resources; statistics; accrediting and licensing; revenue management cycle; medical staff organization. <i>Fall, Spring.</i>			Teaching Elementary School Health and Physical Education: PR: EDF 2005; CR: ARE 4313, MUE 3210, RED 4519, MAE 4326, and EDE 3942. Organization, practice, and conduct of health (including drug abuse) and physical education programs in the elementary school. <i>Fall, Spring.</i>		
HFT 4866C	RCHM-HOS	3(3,1)				HSA 3111	HPA-HP	3(3,0)
Exploring Wines of the World: PR: HFT 1000; HFT 3263; and Age of 21; or C.I. Using senses to evaluate wines, methodology of tasting and evaluating wines, growing, processing, and production of grape varieties used in making wine. <i>Odd Fall, Even Spring.</i> M&S fee: \$45.00						U.S. Health Care Systems: PR: Major or minor in College of Health or C.I. A survey of the economics, social, and political aspects of the health care system in the United States. <i>Fall, Spring.</i>		

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HSA 3111H HPA-HP 3(3,0) U.S. Health Care Systems Honors: PR: Major or minor in College of Health or C.I. Permission of Honors. A survey of the economics, social, and political aspects of the health care system in the United States. With Honors content. <i>Occasional.</i>	HSA 5177 HPA-HP 3(3,0) Foundations of Health Care Finance: PR: 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. <i>Occasional.</i>	HSC 3559 HPA-COM SC&DIS 3(3,0) Disabilities in American Society: PR: Junior or senior status. Personal, social, and environmental impediments confronted by persons with disabilities, including communicative disorders. Strategies that promote life satisfaction are also reviewed. <i>Fall.</i>
HSA 3170 HPA-HP 3(3,0) Health Care Finance: PR: HSA 3111 or C.I., ACG 2021 and ACG 2071. Budgeting and resource allocation related to health care agencies. <i>Fall, Spring.</i>	HSA 5198 HPA-HP 3(3,0) Health Care Decision Sciences and Knowledge Management: PR: 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. <i>Occasional.</i>	HSC 3593 HPA-HP 3(3,0) HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease and the issues surrounding this public health crisis. <i>Fall, Spring.</i>
HSA 3222 HPA-HP 3(3,0) Long Term Care and Administration: PR: HSA 3111 or C.I. The clients, services, and administration of long-term care in specific settings. Students complete a service learning component in long-term care organizations. <i>Even Fall, Spring.</i>	HSA 5257 HPA-HP 3(3,0) ICD9 Coding for Health Services Administrators: PR: HSC 6636, B.S. in Health related field, or C.I. Emphasis on developing basic skills to facilitate an understanding of the coding process and the compliance issues relevant to the process. May be repeated for credit. <i>Occasional.</i>	HSC 3640 HPA-HP 3(3,0) Health Law: PR: HSA 3111 or C.I. Principles of law as applied to the health field, with special reference to health practices. <i>Fall, Spring.</i>
HSA 3430 HPA-HP 3(3,0) Health Care Economics: PR: HSA 3111; ECO 2023; or C.I. To provide an application of economic principles to analyze how different economic incentives affect patients, providers, and policy makers behaviors in the delivery of health services. <i>Fall, Spring.</i>	HSA 5258 HPA-HP 3(3,0) CPT Coding for Health Services Administrators: PR: HSC 6636 or C.I., or BS in Health-related field. Emphasis on developing skills to facilitate an understanding of CPT Coding process and the compliance issues relevant to the process. <i>Occasional.</i>	HSC 4008 HPA-HP 3(3,0) Professional Development in Health Professions: PR: RET 3026C or C.I. Career development planning, professional leadership approaches to problem solving, regulatory and professional requirements, and the impact of disease and technology on the health care industry. <i>Spring.</i>
HSA 4109 HPA-HP 3(3,0) Principles of Managed Care: PR: HSA 3111 or C.I. Course will introduce the contractual, financial, and practice pattern components of managed care. <i>Even Fall, Spring.</i>	HSC 1931C HPA-HPA 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Health & Public Affairs providing a foundation of leadership, scholarship, and service regarding disciplines in the college. <i>Occasional.</i>	HSC 4148 HPA-HP 2(2,0) Medical Pharmacology I: Drugs in pulmonary diseases; effects on nervous system, and neuroeffectors, depressants & stimulants; influence on metabolism and endocrines. (MDRV) Bronchodilators, mycolytics, etc. <i>Fall.</i>
HSA 4151H HPA-HP 3(3,0) Honors Health Care Policy: PR: Permission of Honors and Junior Standing or C.I. Examination of five significant policy issues to enable the student to gain knowledge and understanding of the complexities of health care as a societal issue. <i>Occasional.</i>	HSC 2000 HPA-HP 2(2,0) Introduction to the Allied Health Professions: A survey of allied health professions with regard to duties, responsibilities, education and training, ethics, and relationships with other health professionals. Graded S/U. <i>Fall.</i>	HSC 4149 HPA-HP 2(2,0) Medical Pharmacology II: PR: HSC 4148 or C.I. Drugs used in cardiovascular disorders. Includes inotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists. <i>Spring.</i>
HSA 4180 HPA-HP 3(3,0) Organization and Management for Health Agencies: PR: HSA 3111 or C.I. Organization and management of health care agencies, including procedural applications. <i>Fall, Spring.</i>	HSC 2100 HPA-HP 3(3,0) US Healthcare: Introduction and Challenges: Healthcare in the US as a dynamic enterprise: the professionals, array of services and the social and economic forces affecting their performance. <i>Occasional.</i>	HSC 4243 HPA-HP 3(3,0) Analysis of Instruction in Health Professions: Development of teaching aids, audiovisuals, learning packets. Course development, questioning strategies, evaluation of didactic and clinical performance. <i>Spring.</i>
HSA 4191 HPA-HP 3(3,0) Health Care Automation: PR: HSA 3111; CGS 2100C, or CGS 1060C; or C.I. Analysis and design of computerized systems for health data and health administration. <i>Fall, Spring.</i>	HSC 2921 HPA-HPA 2(2,0) LEAD Colloquium: PR: Accepted to the LEAD Scholars Program and have completed at least two of the following with a B (3.0) or better: HSC 1931C, EGN 1036C, IDS 1040C, GEB 1091C or EDG 1005C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. May be repeated for credit. <i>Occasional.</i>	HSC 4500 HPA-HP 3(3,0) Epidemiology: PR: HSA 3111 or C.I., STA 2014C or STA 2023. A study of the distribution and determination of diseases and injuries in human population. <i>Fall, Spring.</i>
HSA 4201 HPA-HP 3(3,0) Community Health: PR: HSA 3111 or C.I. Historical, socio-cultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies. <i>Fall, Spring.</i>	HSC 3110C HPA-HP 3(2,2) Medical Self Assessment: Development of clinical skills and understanding of one's health to encourage active participation of individuals in their own health care. <i>Fall, Spring.</i> M&S fee: \$15.00	HSC 4550 HPA-HP 3(3,0) Pathophysiologic Mechanisms: PR: ZOO 3733C and PCB 3703C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state. <i>Fall, Spring.</i>
HSA 4220 HPA-HP 3(3,0) Long Term Patient Management: PR: HSA 3111. Concepts and process of patient care planning and management in a long term care facility. <i>Occasional.</i>	HSC 3157 HPA-HP 3(3,0) Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage. <i>Fall, Spring.</i>	HSC 4564 HPA-HP 3(3,0) Health Care Needs of the Elderly: PR: HSA 3111 or C.I. Overview of the physical and emotional needs of the elderly, including the institutional health care available. <i>Fall, Spring.</i>
HSA 4502 HPA-HP 3(3,0) Risk Management Systems: PR: HSA 3111 or C.I. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care. <i>Fall, Spring.</i>	HSC 3402C HPA-HP 3(2,3) CPR & First Aid: To train individuals to accepted and recognized medical standards in emergency first aid and CPR to include medical, environmental and trauma related emergencies. <i>Occasional.</i>	HSC 4653 HPA-HP 3(3,0) Health Care Ethics: PR: HSA 3111 or C.I. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making. <i>Fall, Spring.</i>
HSA 4701 HPA-COM SC&DIS 6(6,0) Introduction to Research in the Health Professions: PR: Senior or post-bac standing. The logic of research and the architecture of basic and applied investigations that are internally and externally reliable and valuable will be stressed. <i>Occasional.</i>	HSC 3531 HPA-HP 3(3,0) Medical Terminology: A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms. <i>Fall, Spring.</i>	HSC 5317 ED-TLP 3(3,0) Health Methods: Teaching Strategies and Interventions: PR: Admission to Graduate Certificate in Health and Wellness or C.I. Application of the knowledge of teaching strategies, methodology, and curriculum to develop a comprehensive school health program. <i>Occasional.</i>
HSA 4702 HPA-HP 3(3,0) Health Sciences Research Methods: PR: HSA 3111; STA 2014C or STA 2023; or C.I. Introduction to research design in the Health Sciences, including design, literature review, testing, analysis, and conclusions. <i>Fall, Spring.</i>		HSC 5595 HPA-HP 3(3,0) AIDS: A Human Concern: Focus on epidemiology, transmission, prevention, legal and health care issues, economic impact, psychosocial aspects, sexuality, substance abuse, ethics, hotlines, referral services and the decision making process. <i>Occasional.</i>

HUM 2020	CAH-PHIL	3(3,0)	Encountering the Humanities: The range of ideas, research methods and approaches to scholarship, critical reflection, and creative work in the humanities. <i>Spring.</i>
HUM 2210	CAH-PHIL	3(3,0)	Humanistic Tradition I: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. <i>Fall, Spring.</i>
HUM 2210H	CAH-PHIL	3(3,0)	Honors Humanistic Tradition I: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. Honors content. <i>Fall.</i>
HUM 2230	CAH-PHIL	3(3,0)	Humanistic Tradition II: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. <i>Fall, Spring.</i>
HUM 2230H	CAH-PHIL	3(3,0)	Honors Humanistic Tradition II: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. Honors content. <i>Spring.</i>
HUM 3252	CAH-PHIL	3(3,0)	Contemporary Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the 20th century. <i>Occasional.</i>
HUM 3255	CAH-PHIL	3(3,0)	Modern Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period. <i>Occasional.</i>
HUM 3320	CAH-PHIL	3(3,0)	Contemporary Multicultural Studies: PR: HUM 2230, Junior standing, or C.I. Studies the confluence of diverse cultures making up North America in the Information Age, focusing on complete primary sources in philosophy, literature, visual arts and music. <i>Even Fall.</i>
HUM 3394	CAH-PHIL	3(3,0)	Representations of Place and Space: PR: HUM 2230 or C.I. Phenomenological, symbolic, constructivist, and determinist approaches to personal and social place and space. <i>Occasional.</i>
HUM 3401	CAH-PHIL	3(3,0)	Asian Humanities: PR: HUM 2230 or C.I. An interdisciplinary survey of the cultures of India, China, and Japan, concentrating on their traditional art, literature, religion, philosophy, and music. <i>Occasional.</i>
HUM 3417	CAH-PHIL	3(3,0)	Hindu Thought and Culture: PR: HUM 2230, REL 2300, or C.I. A survey of the development of Hindu thought and culture from vedic times to the modern age, with emphasis on religion, literature, philosophy, art and music. <i>Occasional.</i>
HUM 3419	CAH-PHIL	3(3,0)	Islamic Thought and Culture: PR: HUM 2230, or REL 2300, or C.I. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. <i>Occasional.</i>
HUM 3419H	CAH-PHIL	3(3,0)	Honors Islamic Thought and Culture: PR: HUM 2230, or REL 2300, and Consent of Honors. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. With Honors content. <i>Occasional.</i>
HUM 3431	CAH-PHIL	3(3,0)	Ancient Humanities: PR: HUM 2230 or C.I. Development of Ancient Greek thought and culture with emphasis on philosophy, religion, literature and art. <i>Occasional.</i>
HUM 3435	CAH-PHIL	3(3,0)	Medieval Humanities: PR: ENC 1102 or C.I. Development of Medieval thought and culture with emphasis on Philosophy, Religion, Literature and Art. <i>Occasional.</i>
HUM 3460	CAH-PHIL	3(3,0)	Latin American Humanities: PR: HUM 2210 or HUM 2230. Ideas in cultures of Latin America and Caribbean basin as expressed in arts, architecture, music, philosophy, religion, literature and film. <i>Occasional.</i>
HUM 3552	CAH-PHIL	3(3,0)	Christian Thought: PR: ENC 1102. Christian thought from 4th century to present, concentrating on human nature, social justice, the state, war, and attitudes toward women. <i>Occasional.</i>
HUM 3553	CAH-PHIL	3(3,0)	Moses, Jesus and Muhammad: PR: HUM 2230, REL 2300, or C.I. Deals with the main themes of Judaism, Christianity, and Islam as found in the teachings of Moses, Jesus, and Muhammad. <i>Occasional.</i>
HUM 3800	CAH-PHIL	3(3,0)	Research Methods in Humanities: PR: Junior standing, and Humanities or Philosophy major or C.I. Research skills for the humanities, including methodologies, writing techniques, essay structuring, formatting, and methods for citing references and constructing bibliographies. <i>Occasional.</i>
HUM 4301	CAH-PHIL	3(3,0)	The Classical Ideal: PR: HUM 2210 and HUM 2230 or C.I. The search for order and form in the arts of various times and cultures. Concerns reason, structure, objectivity, harmony. Open to all Juniors and Seniors. <i>Occasional.</i>
HUM 4303	CAH-PHIL	3(3,0)	The Spiritual Ideal: PR: HUM 2210 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest; mystical impulses contrasted to ethos and pathos. <i>Odd Spring.</i>
HUM 4330	CAH-PHIL	3(3,0)	Performance Theory: PR: Junior standing and HUM 2230 and either PHI 2010, PHI 2011, PHI 2108, or C.I. Traditional and contemporary theories of performance with a focus on linguistic performatives, bodily and virtual performances, self-identity, and the politics of performance. <i>Occasional.</i>
HUM 4393	CAH-PHIL	1(1,0)	Portfolio: PR: Last semester as Humanities major. Presentation of a representative sampling of student's best undergraduate work, with appropriate revisions, including a cover narrative indicating development of humanistic knowledge and skills. Graded S/U. <i>Fall, Spring.</i>
HUM 4554	CAH-PHIL	3(3,0)	Religious Quest and Human Dilemma: PR: ENC 1102 or C.I. Nature of the sacred, death, and future life and how they relate to human existence. <i>Even Fall.</i>
HUM 4556	CAH-PHIL	3(3,0)	Religion and the Arts: PR: One of: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary. <i>Occasional.</i>
HUM 4823	CAH-PHIL	3(3,0)	Queer Theory in the Humanities: PR: HUM 2210 and HUM 2230 and Junior standing or C.I. Developments in queer theory. Challenge to research by scholars, activists, performers, and visual artists. <i>Occasional.</i>
HUM 4933	CAH-PHIL	3(3,0)	Senior Research Seminar: PR: Senior standing and Humanities major. Capstone course on research, developing effective oral and written communication skills. <i>Occasional.</i>
HUM 5802	CAH-PHIL	3(3,0)	Applied Contemporary Humanities: PR: HUM 5803, graduate status or senior standing, or C.I. Development of an application research project relevant to contemporary cultural issues, using Humanities theories and methods. <i>Occasional.</i>
HUM 5803	CAH-PHIL	3(3,0)	Theories and Methods of the Humanities: PR: Senior undergraduate standing and at least one of the following: HUM 3252, HUM 3320, or PHI 4808 or Graduate Standing. Approaches, concepts, methods, and theoretical issues in the Humanities with an emphasis on critical analysis of diverse disciplinary and interdisciplinary theories and methods. <i>Fall.</i>
HUN 2002	HPA-HP	3(3,0)	Modern Concepts in Nutrition: An examination of the eating patterns of today's American people. Topics include: nutrients in our diets, consumer demand in the food industry; fast food outlets, food trends and hunger. <i>Fall, Spring.</i>
HUN 3011	CON-NURS	3(3,0)	Human Nutrition: Essentials of nutrition related to the life cycle, including the physiological, psychosocial, and cultural aspects of nutrition and the inter-relationship with disease are emphasized. <i>Fall, Spring.</i>
HUN 3013	RCHM-HOS	3(3,0)	Nutrition Concepts and Issues in the Food Service Industry: PR: HFT 4250C or C.I. Introduces basic nutrition concepts. Discusses nutrition concepts and concerns in relation to food preparation and service in the hospitality industry. <i>Occasional.</i>
HUN 5247	HPA-HP	3(3,0)	Principles of Human Nutrition: PR: Admission to Health Sciences Clinical Lifestyle 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. <i>Occasional.</i>
IDH 1920H	BHC-HON	2(2,1)	Honors Symposium I: PR: Permission of Honors. Readings, lectures, discussions, and laboratories covering aspects of scholarship and service learning. Graded S/U. <i>Fall.</i>
IDH 1921H	BHC-HON	2(2,0)	Honors Symposium II: PR: IDH 1920H. Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts. Graded S/U. <i>Spring.</i>
IDH 1923H	BHC-HON	2(2,1)	Honors Foundation of Leadership: PR: Permission of Honors. An honors symposium that presents academic leaders and their research or artistic achievements. Students are organized in groups to discuss leadership principles and applications. Graded S/U. <i>Occasional.</i>
IDH 4030H	BHC-HON	1(3,0)	Honors Windows To The World: PR: Permission of Honors and IDH 1921H, enrolled in Accelerated Pre-med Program; or C.I. Students will cultivate an active sense of the liberal arts and sciences as they prepare for prestigious scholarships and graduate school. Graded S/U. May be repeated for credit. <i>Occasional.</i>

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IDS 1040C	COS-COMM	2(1,1)	IDS 5127	BCBS-M&M	3(3,0)	INR 2002	COS-POLS	3(3,0)
Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Arts & Sciences providing a foundation of leadership, scholarship, and service regarding disciplines in the college. <i>Fall, Spring.</i>			Foundation of Bio-Imaging Science: PR: graduate standing. Fundamental theory, design, and practice of modern bio-imaging techniques used for basic biomedical research applications. <i>Occasional.</i>			International Relations-Theory and Practice: Analysis of the fundamental principles and factors affecting interstate relations and their application to contemporary global developments. <i>Fall, Spring.</i>		
IDS 2041C	COS-COS	2(1,1)	IDS 5145	ECS-IEMS	3(3,2)	INR 3016	COS-POLS	3(3,0)
LEAD Colloquium: PR: Must have completed 2 of the following with a grade of B or better: IDS 1040C, GEB 1091C, HSC 1931C, EGN 1036C, EDG 1005, or EDF 1930C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. <i>Occasional.</i>			Interdisciplinary course in simulation: PR: Calculus, matrix algebra, probability & statistics, high level programming language. An interdisciplinary course on simulation with hands-on experience in discrete event modeling, continuous modeling & shared virtual world. May be repeated for credit. <i>Occasional.</i>			Global Political Issues: PR: POS 2041 or C.I. Current global political topics from political development and income gap to gender issues and environmental challenges. <i>Occasional.</i>		
IDS 3150	UGRD-LIBERAL ST	3(3,0)	IDS 5717C	COS-PSYCH	3(2,2)	INR 3250	COS-POLS	3(3,0)
Foundations of Environmental Studies: PR: Junior standing, complete equivalent of UCF Science and Math GEP. An overview of the approaches taken by different disciplines to address regional, national, and global environmental issues. <i>Spring.</i>			Introduction to Modeling and Simulation: PR: STA 2023 or equivalent. Introduction to the theory and practice of modeling and simulation with emphasis on multidisciplinary scientific underpinnings. <i>Fall, Spring.</i>			Politics of Pan-Africanism: PR: INR 2002. Political expressions of Pan-Africanism throughout the major regions of the African Diaspora. <i>Occasional.</i>		
IDS 3333	UGRD-LIBERAL ST	3(3,0)	IDS 5719	COS-PSYCH	3(3,0)	INR 3253	COS-POLS	3(3,0)
World Comparative Studies: PR: ENC 1102 or C.I. Comparative study of cultures, economies, languages, and social systems using approaches and data from multiple disciplines. <i>Occasional.</i>			Quantitative Aspects of Modeling and Simulation: PR: MAC 2241 or equivalent. Introduction to matrix algebra and other discrete mathematics topics for modeling and simulation applications. <i>Spring.</i>			International Politics of Africa: PR: Junior standing or C.I. The broad structures and processes of international politics and foreign policy in Africa, with particular attention on U.S.-African relations. <i>Occasional.</i>		
IDS 3334	CAH-HIST	3(3,0)	IDS 5915	CAH-PHIL	3(3,0)	INR 4011	COS-POLS	3(3,0)
Topics in Latino Studies: PR: ENC 1102. Multi-disciplinary course exploring various topics pertaining to Latinos in the U.S. <i>Occasional.</i>			Research Methods in Cognitive Sciences: PR: Admission to graduate certificate program in Cognitive Sciences or C.I. Interdisciplinary research methods in the cognitive sciences. <i>Spring.</i>			Politics of Globalization: PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization. <i>Occasional.</i>		
IDS 3933	UGRD-LIBERAL ST	3(3,0)	IDS 5936	CAH-PHIL	3(3,0)	INR 4030	COS-POLS	3(3,0)
Cornerstone Experience: PR: ENC 1102, Junior standing, Interdisciplinary Studies major, or C.I. Interdisciplinary study essentials, including basic concepts and methodological tools, to synthesize material from disparate fields and apply them to academic plans and career goals. <i>Fall, Spring.</i>			Topics in Cognitive Sciences: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Theoretical issues and empirical studies in the cognitive sciences, including contemporary discussions of mind, brain, artificial intelligence, pathologies, and behavioral capacities. <i>Fall.</i>			Diplomacy: PR: POS 2041, Junior standing or C.I. Concepts, theories, and methods of contemporary diplomacy; diplomatic processes in the international arena. <i>Spring.</i>		
IDS 4156	UGRD-LIBERAL ST	3(3,0)	INP 3004	COS-PSYCH	3(3,0)	INR 4035	COS-POLS	3(3,0)
Solving Environmental Problems: PR: IDS 3150, ECP 4302, GIS 3043C, GIS 4301C and PUP 3203, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed. <i>Occasional.</i>			Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations. <i>Fall.</i>			International Political Economy: The international politics of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations. <i>Odd Spring.</i>		
IDS 4315	COS-POLS	3(3,0)	INP 3141C	COS-PSYCH	1-3(0,3-9)	INR 4054	COS-POLS	3(3,0)
Global Perspectives: PR: Completion of general education requirements and junior standing or C.I. The historical and contemporary contexts of globalization. <i>Spring.</i>			Advanced Applied Psychology: PR: PSY 2012 and CI. Course will explore application of psychological knowledge to clinical, experimental, industrial, or educational settings. Supervised laboratory experience is required. May be repeated for credit. Graded S/U. <i>Fall, Spring.</i>			Global Politics of Energy: PR: POS 2041 or INR 2002 or C.I. International/national dimensions of global energy policy within developed and underdeveloped countries. <i>Occasional.</i>		
IDS 4335	CAH-CAH	3(3,0)	INP 3951	COS-PSYCH	3(0,10)	INR 4060	COS-POLS	3(3,0)
Latino Artistic Expressions: PR: IDS 3334 or C.I. Latino culture as represented by the Arts in the United States. <i>Odd Spring.</i>			Industrial/Organizational Field Work: PR: C.I. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations. <i>Occasional.</i>			Causes of War: PR: POS 2041 or INR 2002 or C.I. The primary theoretical and empirical research explaining militarized interstate conflict. <i>Fall.</i>		
IDS 4728	CAH-DIG	3(3,0)	INP 4252	COS-PSYCH	3(3,0)	INR 4064	COS-POLS	3(3,0)
Unix for Graphics Production: PR: COP 3223 and DIG 3525 or C.I. Unix operating system for the management of complex graphical production processes in animation and film post-production. <i>Occasional.</i>			Advanced Industrial Psychology: PR: INP 3004 and PSY 3213C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment. <i>Occasional.</i>			Changing Nature of War: PR: POS 2041 or C.I. The changing nature of war in light of significant changes in technology and international politics. <i>Occasional.</i>		
IDS 4786C	CAH-DIG	4(3,3)	INP 4313	COS-PSYCH	3(3,0)	INR 4074	COS-POLS	3(3,0)
Production Software Workshop: PR: COT 3960 and DIG 4204, or C.I. Generating and manipulating digital imagery. Techniques, mechanics, underlying representations and data; introductions to scripting, plug-ins, procedural models. <i>Occasional.</i>			Organizational Psychology: PR: INP 3004. Analysis of the psychological principles underlying individual and group behavior in an organizational setting. Topics include group dynamics, leadership and participation, intergroup behavior, and organization development. <i>Occasional.</i>			Immigration Policy: PR: POS 2041, Junior standing or C.I. Analysis of the complex subject of immigration, including U.S. and comparative immigration policy, illegal immigration, alien smuggling, and statelessness and their political/security impact. <i>Occasional.</i>		
IDS 4934	UGST-LIBERAL ST	3(3,0)	INP 5825	COS-PSYCH	3(3,0)	INR 4075	COS-POLS	3(3,0)
Capstone Experience: PR: IDS 3933, Junior standing, and Interdisciplinary Studies major, or C.I. Student exposition of coursework demonstrating the understanding of interdisciplinary approaches and successful synthesis of interdisciplinary studies, applied to the course of study and academic/career goals. <i>Fall, Spring.</i>			Human-computer Interface (HCI) design: A team approach: PR: Graduate status or senior standing or C.I. Interdisciplinary approach to human-computer interface design, including behavior, engineering, computer science, and instructional aspects. Tools and techniques for team development and the evaluation of software for usability. <i>Occasional.</i>			Human Rights Policy: PR: POS 2041, Junior standing or C.I. Meaning of human rights, political and international implications of human rights policies, relationship to global peace, racism, gender inequality, economic development and democratization. <i>Spring.</i>		
IDS 4935	COS-SOC	3(3,0)				INR 4076	COS-POLS	3(3,0)
Multidisciplinary Research Methods: PR: McNair Scholar and Junior Standing. Research methods of various disciplines designed for McNair Program Scholars. <i>Occasional.</i>						Global Drug Policy: PR: POS 2041, Junior standing or C.I. International drug control issues, policy formulation and enforcement, impact of government and political economic systems on drug policy. Selected Latin American and Third World cases. <i>Odd Spring.</i>		

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<p>INR 4085 COS-POLS 3(3,0) Women, Gender, and Globalization: PR: Junior standing. Feminist and gender perspectives in International Relations, Globalization, and International Political Economy. <i>Occasional.</i></p>	<p>INR 4401 COS-POLS 3(3,0) International Law I: PR: Junior standing or C.I. The nature, evolution, and sources of international law and such subareas as recognition of states and governments, expropriation, nationality, and aliens. <i>Occasional.</i></p>	<p>ISM 3043 BA-MIS 3(3,0) Society and Technology: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. Not open to MIS majors. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities. <i>Occasional.</i></p>
<p>INR 4102 COS-POLS 3(3,0) American Foreign Policy: Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world. <i>Odd Fall.</i></p>	<p>INR 4402 COS-POLS 3(3,0) International Law II: PR: INR 4401 or C.I. Examination of various sub-areas of international law, including maritime law, laws of the sea and seabed, air law, outer space, neutrality, and laws of war. <i>Occasional.</i></p>	<p>ISM 3214 BA-MIS 3(3,0) Personal Database Productivity: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. Not open to MIS majors. The use of databases and data products. Emphasizes modern tools for accessing organizational data, data mining and reporting. <i>Occasional.</i></p>
<p>INR 4104 COS-POLS 3(3,0) Topics and Cases in American Foreign Policy: PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems or aspects of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, policymaking and decision-making and intelligence. <i>Odd Spring.</i></p>	<p>INR 4404 COS-POLS 3(3,0) Space Law: Examination of the legal regime of outer space from both international and national perspectives, and the legal problems arising from human activity in space. <i>Occasional.</i></p>	<p>ISM 3253 BA-MIS 4(3,3) MIS Techniques: PR: CGS 2100C, Open to MIS Majors and Minors and other appropriate majors. Computer programming for users and developers of management information systems. <i>Fall, Spring.</i></p>
<p>INR 4114 COS-POLS 3(3,0) American Security Policy: PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control. <i>Occasional.</i></p>	<p>INR 4502 COS-POLS 3(3,0) International Organizations: The study of the structure and workings of international organizations of cooperation, including the UN, its affiliates, and various regional organizations. <i>Even Fall, Odd Spring.</i></p>	<p>ISM 3424 BA-MIS 3(3,0) Computer-Aided Decision Making: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. Not open to MIS majors. Prepares the student to use computer-based tools to assist in making organizational decisions. Also includes a component on problem solving techniques. <i>Occasional.</i></p>
<p>INR 4115 COS-POLS 3(3,0) Strategic Weapons and Arms Control: Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation. <i>Occasional.</i></p>	<p>INR 4603 COS-POLS 3(3,0) International Relations Theory: PR: INR 2002. Theoretical trends prevalent in the study of international relations, including realism, liberalism, Marxism, feminism, and post-modernism. <i>Occasional.</i></p>	<p>ISM 3501 BA-MIS 3(3,0) Essentials of Electronic Commerce: PR: CGS 2100C or CGS 1060C, and ISM 3011. Not open to MIS majors. Open to MIS Minors and students whose major requires it. Basic electronic commerce and concepts. Students are required to develop an e-commerce related business plan and build a prototype Website using a website development tool. <i>Occasional.</i></p>
<p>INR 4224 COS-POLS 3(3,0) Contemporary International Politics of Asia: Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan. <i>Occasional.</i></p>	<p>INR 4714 COS-POLS 3(3,0) Politics of International Trade Policy: PR: INR 2002. Key actors and processes of international trade policy-making at the sub-national, nation-state, regional, and global levels of analysis. <i>Occasional.</i></p>	<p>ISM 3521 BA-MIS 3(3,0) Business Applications: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. Not open to MIS majors. Advanced topics concerning the use of application software in organizations. Focus on integration of applications. <i>Occasional.</i></p>
<p>INR 4225 COS-POLS 3(3,0) The Vietnam War: Background of events leading to America's involvement in Indochina, the course of the Vietnam War, and the lessons which that war imparts. <i>Odd Spring.</i></p>	<p>ISC 2215 COS-MATH 1(3,0) Interdisciplinary Applications of Calculus I: CR: MAC 2311. Interdisciplinary applications of differential and integral calculus topics in MAC 2311 to the solution of concrete problems in science, mathematics, and engineering disciplines. <i>Fall.</i></p>	<p>ISM 3530 BA-MIS 3(3,0) Quality & Productivity Management: PR: GEB 3031, MAN 3025. Open to MIS Majors and Minors and students whose major requires it. Principles and theories of quality and operations management in manufacturing and service organizations. <i>Fall, Spring.</i></p>
<p>INR 4243 COS-POLS 3(3,0) International Politics of Latin America: Study of contemporary U.S.-Latin American relations, interAmerican politics and organization, and the role of Latin America in the world. <i>Occasional.</i></p>	<p>ISC 2216 COS-MATH 1(3,0) Interdisciplinary Applications of Calculus II: CR: MAC 2312. Interdisciplinary applications of differential and integral calculus topics in MAC 2312 to the solution of concrete problems in science, mathematics, and engineering disciplines. <i>Spring.</i></p>	<p>ISM 4090 BA-MIS 3(3,0) Seminar in Management Information Systems: PR: ISM 3011. Open to MIS Majors and Minors and students whose major requires it. New developments in management information systems in a business environment. <i>Occasional.</i></p>
<p>INR 4304 COS-POLS 3(3,0) Issues in International Public Policy: PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-making, which influence select international public policy issues. <i>Occasional.</i></p>	<p>ISC 2217 COS-MATH 1(3,0) Interdisciplinary Applications of Calculus III: CR: MAC 2313. Interdisciplinary applications of differential and integral calculus topics in MAC 2313 to the solution of concrete problems in science, mathematics, and engineering disciplines. <i>Fall.</i></p>	<p>ISM 4113 BA-MIS 3(3,0) Information Systems Analysis and Design: PR: ISM 3253, ISM 4212C. Open to MIS Majors and Minors and students whose major requires it. Structured approaches to the development of computer-based information systems in business. <i>Fall, Spring.</i></p>
<p>INR 4335 COS-POLS 3(3,0) Coercion in International Politics: Examination of the role of coercive techniques among states in a nuclear age, ranging from nuclear strategy and deterrence to wars of national liberation and coups. <i>Even Fall.</i></p>	<p>ISM 3011 BA-MIS 4(4,0) Essentials of Management Information Systems: PR: Junior standing and open to MIS Majors and Minors and other appropriate majors, CGS 2100C or CGS 1060C. Management and use of information technology (IT) in organizations. Emphasis on how IT impacts operations and decision making. <i>Fall, Spring.</i></p>	<p>ISM 4114 BA-MIS 3(3,0) Advanced Business Application Development: PR: ISM 3253, ISM 4212C, Open to MIS Majors and Minors and students whose major requires it. Theory and practice in developing client server applications for business and use of modern development tools. Includes principles of multiuser application design and implementation. <i>Occasional.</i></p>
<p>INR 4350 COS-POLS 3(3,0) Global Environmental Politics: PR: INR 2002 or POS 2041 or C.I. The unique environmental struggles and political issues that occur on the international and global levels. <i>Fall.</i></p>	<p>ISM 3011H BA-MIS 3(3,0) Honors Management Information Systems: PR: Junior standing and business major or minor, permission of Honors; CGS 2100C or CGS 1060C. Management and use of information technology in organizations. <i>Occasional.</i></p>	<p>ISM 4130 BA-MIS 3(3,0) Information Systems Implementation: PR: ISM 4113. Open to MIS Majors and Minors and students whose major requires it. Management of information systems development in business. <i>Fall, Spring.</i></p>
<p>INR 4351 COS-POLS 3(3,0) International Environmental Law: PR: Junior standing or C.I. Examination of global efforts to establish a treaty regime for environmental protection of earth's biosphere when challenged by national sovereignty and economic and cultural diversity. <i>Odd Spring.</i></p>	<p>ISM 3013 BA-MIS 3(3,0) Introduction to Information Systems Management: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. Not open to MIS majors. Concepts and methods related to the management of information systems in organizations. <i>Occasional.</i></p>	
<p>INR 4364 COS-POLS 3(3,0) The Intelligence Community: PR: POS 2041 or INR 2002 or CPO 3103 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. <i>Spring.</i></p>		

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ISM 4153	BA-MIS	3(3,0)	ISM 5021	BA-MIS	3(3,0)	ITA 2210	CAH-LANG	3(3,0)
Enterprise Information Systems: PR: ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Implementing and managing enterprise information systems in organizations. <i>Occasional.</i>			Introduction to Management Information Systems: PR: Acceptance into the graduate program. Designed to provide the student with the fundamentals of business data processing and management information systems used by organizations in a modern society. <i>Occasional.</i>			Intensive Italian Conversation: PR: One year of Italian or equivalent. Practical use of the language leading toward fluency and correctness in speaking. <i>Occasional.</i>		
ISM 4154	BA-MIS	3(3,0)	ISM 5123	BA-MIS	3(3,0)	ITA 2240	CAH-LANG	3(3,0)
Enterprise Application Development: PR: ISM 4431. Open to MIS Majors and Minors and students whose major requires it. Design and development of enterprise applications with special emphasis on web based development platforms. <i>Occasional.</i>			Concepts of Systems Analysis and Design: PR: Graduate standing. Using a traditional life-cycle approach, the course introduces practical tools and techniques for organizational analysis and the subsequent design of an information system. <i>Occasional.</i>			Italian Conversation: PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture. <i>Occasional.</i>		
ISM 4212C	BA-MIS	4(3,2)	ISM 5127	BA-MIS	3(3,0)	ITA 3420	CAH-LANG	3(3,0)
Database Design and Implementation: PR: ISM 3253, ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Design and implementation of relational database in organizations. <i>Fall, Spring.</i>			Concepts of Database Design and Administration: PR: Graduate standing. Introduces concepts and methods related to the effective utilization of data by organizations. <i>Occasional.</i>			Italian Composition: PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture. <i>Spring.</i>		
ISM 4220	BA-MIS	3(3,0)	ISM 5219	BA-MIS	3(3,0)	ITA 3440	CAH-LANG	3(3,0)
Distributed Information Systems: PR: ISM 3253, ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. <i>Fall, Spring.</i>			Business Intelligence Systems: PR: Graduate standing. Modern paradigms in data analysis. The detection of useful patterns and relationships in databases. <i>Occasional.</i>			Italian for Business: PR: ITA 2200. Italian language for business purposes. <i>Occasional.</i>		
ISM 4228	BA-MIS	3(3,0)	ISM 5256	BA-MIS	3(3,0)	ITA 3472	CAH-LANG	3(3,0)
Advanced Distributed Information Systems: PR: ISM 4220. Open to MIS Majors and Minors and other appropriate majors. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork is emphasized in mastering networking concepts. <i>Occasional.</i>			Concepts of Business Programming: PR: Senior or Admission to Graduate Study. Principles of programming including program design, fundamental programming constructs, and database access. <i>Occasional.</i>			Renaissance Art Abroad: PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo. <i>Occasional.</i>		
ISM 4238	BA-MIS	3(3,0)	ISM 5315	BA-MIS	3(3,0)	ITA 3760	CAH-LANG	3(3,0)
Business Programming/OOP: PR: ISM 3253, ISM 4212C, or C.I. Open to MIS Majors and Minors and students whose major requires it. An introduction to object-oriented programming (OOP) and object-oriented design (OOD). <i>Occasional.</i>			Information Systems Project Management: PR: Graduate standing. This course introduces students to the concept of project management including project scope, cost, time and quality. <i>Occasional.</i>			Advanced Italian Oral Communication: PR: ITA 2201 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. <i>Fall.</i>		
ISM 4300	BA-MIS	3(3,0)	ISM 5507	BA-MIS	3(3,0)	ITA 4820	CAH-LANG	3(3,0)
Information Technology Management: PR: ISM 4113, MAN 3025. Open to MIS Majors and Minors and students whose major requires it. The strategy and theory of the design, development, adoption, and management of new information technologies. <i>Fall, Spring.</i>			Electronic Agorae: PR: Admission to graduate study. Broad exploration of internet tools as vehicles for communication, interaction, decision-making, and community formation. <i>Occasional.</i>			Italian Syntax Abroad: PR: ITA 3420. A study of Italian Syntax for advanced students of Italian. <i>Occasional.</i>		
ISM 4323	BA-MIS	3(3,0)	ISS 4155	COS-COMM	3(3,0)	ITT 3443	CAH-LANG	3(3,0)
Information Systems Security: PR: ISM 4220. Open to MIS Majors and Minors and students whose major requires it. Primary issues related to information systems security in an organization's IT infrastructure. <i>Occasional.</i>			Science Fiction and the Social Sciences: A multimedia examination of note-worthy science fiction from the Social Science perspective. <i>Occasional.</i>			Dante's Inferno: PR: ITW 3100. An in-depth study of Dante's Inferno. In English. <i>Occasional.</i>		
ISM 4400	BA-MIS	3(3,0)	ITA 1005	CAH-MUSIC	1(1,0)	ITT 3480	CAH-LANG	3(3,0)
Decision Support: PR: ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Computer-based quantitative models and decision support systems in organizations. <i>Fall, Spring.</i>			Italian Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, Italian songs, and opera libretti. <i>Even Spring.</i>			Study Abroad: Italian Literature in Translation: PR: C.I. Main literary tendencies and authors of Italian literature, taught in the native environment. <i>Occasional.</i>		
ISM 4431	BA-MIS	3(3,0)	ITA 1120	CAH-LANG	4(4,1)	ITT 4956	CAH-LANG	3(3,0)
Business Process Analysis: PR: ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Analysis of business processes surrounding Supply Chain Management. Focus on enterprise resource planning technology supports SCM by integrating the business process required for success. <i>Occasional.</i>			Elementary Italian Language and Civilization I: Introduces the student to Italian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. <i>Fall, Spring.</i>			Study Abroad: Modern and Contemporary Italian Culture: PR: Junior standing and C.I. Modern and contemporary Italian culture in the natural environment. <i>Occasional.</i>		
ISM 4480	BA-MIS	3(3,0)	ITA 1121	CAH-LANG	4(4,1)	ITT 4957H	CAH-LANG	3(3,0)
Electronic Commerce Systems: PR: ISM 3253. Open to MIS Majors and Minors and students whose major requires it. Theory and practice in developing electronic commerce systems. Emphasizes economic issues and modern e-commerce development tools. Significant laboratory work required. <i>Occasional.</i>			Elementary Italian Language and Civilization II: PR: ITA 1120 or equivalent. Continuation of ITA 1120. <i>Fall, Spring.</i>			Honors Italian Literature in Translation: PR: ENC 1102 and consent of Honors. Main literary tendencies and authors of Italian Literature, with honors content. <i>Occasional.</i>		
ISM 4941	BA-MIS	3(0,3)	ITA 2200	CAH-LANG	3(3,0)	ITW 3100	CAH-LANG	3(3,0)
Internship in MIS: PR: ISM 3253, ISM 4212C, and ISM 3011, consent of department chair. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information. <i>Fall, Spring.</i>			Intermediate Italian Language and Civilization I: PR: ITA 1121 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar, study of syntax, idiomatic expression, extensive readings, and further study of Italian culture. <i>Fall.</i>			Survey of Italian Literature I: PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries. <i>Occasional.</i>		
			ITA 2201	CAH-LANG	3(3,0)	ITW 3101	CAH-LANG	3(3,0)
			Intermediate Italian Language and Civilization II: PR: ITA 2200 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Italian civilization. <i>Spring.</i>			Survey of Italian Literature II: PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present. <i>Occasional.</i>		
			JOU 2100C	COS-COMM	3(3,1)	JOU 3004	COS-COMM	3(3,0)
			News Reporting: PR: Com pending, or Journalism Major, or Magazine Journalism Minor and meet grammar proficiency requirement. Newsgathering and writing for the mass media. <i>Fall, Spring.</i> M&S fee: \$15.00			History of American Journalism: Development of mass media, leading innovators, and the medias role in the nation's history. <i>Fall, Spring.</i>		

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JOU 3101	COS-COMM	3(3,0)	Advanced Reporting: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of "C" (2.0) in JOU 2100C. Advanced information-gathering and development of news writing skills. <i>Fall, Spring.</i> M&S fee: \$15.00	JOU 4340C	COS-COMM	3(1,3)	On-line Journalism I: PR: A minimum grade of "C" (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Write and design news for the Web. <i>Occasional.</i> M&S fee: \$15.00	JST 3125	CAH-JUD	3(3,0)	The Book of Job: PR: Jr standing, ENC 1102. A textual-thematic study of Book of Job in English translation, exploring the Book of Job as literature, theology and ethics. <i>Occasional.</i>
JOU 3184C	COS-COMM	3(2,1)	Metro Reporting: PR: Journalism major and a minimum grade of "C" (2.0) in JOU 2100C. Coverage of several important news beats in a metropolitan area. <i>Occasional.</i>	JOU 4341C	COS-COMM	3(1,3)	On-line Journalism II: PR: JOU 4340C. Study, design, and development of on-line journalism materials. <i>Occasional.</i> M&S fee: \$15.00	JST 3126	CAH-JUD	3(3,0)	Romantic Love in the Bible: PR: ENC 1102, Junior standing. The dimensions of romantic love in the Hebrew Bible, focusing on the depiction of human feelings of love and relationship; the nature of man-woman interactions in ancient Israel. <i>Occasional.</i>
JOU 3201	COS-COMM	3(3,0)	Editing I: PR: Journalism major or Magazine Journalism minor and meet grammar proficiency requirement. Editing copy, writing headlines, managing newsroom operations. <i>Fall, Spring.</i> M&S fee: \$15.00	JOU 4342C	COS-COMM	3(2,1)	Converged Journalism: PR: JOU 2100C and MMC 3200. Combining print and electronic technologies to transmit information to the public. Capstone course. <i>Occasional.</i>	JST 3144	CAH-JUD	3(3,0)	Dead Sea Scrolls: PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance. <i>Occasional.</i>
JOU 3202	COS-COMM	3(3,0)	Editing II: PR: Journalism major or Magazine Writing minor, a minimum grade of "C" (2.0) in JOU 3201, and a minimum grade of "C" (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout. <i>Fall, Spring.</i> M&S fee: \$15.00	JOU 4700	COS-COMM	3(3,0)	Journalism Ethics: PR: MMC 3200. Ethical problems, codes, and practices in newsrooms. <i>Occasional.</i>	JST 3190	CAH-JUD	3(3,0)	The Biblical Prophets: PR: ENC 1102. Writings of the biblical prophets, Isaiah, Jeremiah and Ezekiel against the backdrop of their times. <i>Occasional.</i>
JOU 3313C	COS-COMM	3(2,1)	Sports Reporting: PR: Journalism major and a minimum grade of "C" (2.0) in JOU 2100C. Covering sports for the print media: issues, principles, and practices. <i>Occasional.</i>	JPN 1120	CAH-LANG	4(4,1)	Elementary Japanese Language and Civilization I: Introduces the student to Japanese culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language. <i>Fall.</i>	JST 3312	CAH-JUD	3(3,0)	Identity and Genre: PR: ENC 1102 or C.I. Jewish and Hebrew literature as related to the intellectual quest for Jewish identity and modernism in the 18th and 19th centuries. <i>Occasional.</i>
JOU 3510	COS-COMM	3(3,0)	Magazine Publishing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, emphasizing business operations and current topics. <i>Spring.</i>	JPN 1121	CAH-LANG	4(4,1)	Elementary Japanese Language and Civilization II: PR: JPN 1120 or equivalent. Continuation of JPN 1120. <i>Spring.</i>	JST 3312H	CAH-JUD	3(3,0)	Honors Jewish Identity and Genre: PR: ENC 1102 and consent of Honors. Literary genres in Jewish and Hebrew literature of the 18th and 19th centuries as related to the intellectual quest for Jewish identity and modernism. With Honors content. <i>Occasional.</i>
JOU 4181	COS-COMM	3(3,0)	Public Affairs Reporting: PR: Journalism major, and a minimum grade of "C" (2.0) in both JOU 2100C and JOU 3__C Metro Reporting. Reporting on city, county and state government. <i>Fall, Spring.</i> M&S fee: \$15.00	JPN 2200	CAH-LANG	3(3,1)	Intermediate Japanese Language and Civilization I: PR: JPN 1121 or equivalent. This course aims to aid in acquiring and refining the acquisition of the four skills in modern Japanese: speaking, listening, reading, and writing. The emphasis is on accurate communication in Japanese. The culture of Japan will also be studied. <i>Fall.</i>	JST 3401	CAH-JUD	3(3,0)	The Jewish People I: Introduction survey of the history and culture of the Jewish people from the beginnings of Judaism in the biblical era through the Graeco-Roman and rabbinic periods. <i>Fall.</i>
JOU 4211C	COS-COMM	3(2,1)	Informational Graphics: PR: JOU major and a minimum grade of "C" (2.0) in JOU 2100C. Use of boxes, charts and graphics in the print media. <i>Occasional.</i>	JPN 2201	CAH-LANG	3(3,1)	Intermediate Japanese Language and Civilization II: PR: JPN 2200 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization. <i>Spring.</i>	JST 3402	CAH-JUD	3(3,0)	The Jewish People II: The life and history of the Jews in the medieval and modern worlds. <i>Spring.</i>
JOU 4213C	COS-COMM	3(2,1)	Page Design: PR: Journalism major and JOU 3201 and JOU 3202 or VIC 3001. Designing newspaper pages, including stories, headlines, and other content. <i>Occasional.</i>	JPN 2952	CAH-LANG	3(3,0)	Japanese Cultural Studies Abroad: PR: JPN 1120 and JPN 1121. Japanese culture through key elements of Japanese life and comprehensive exposure of various aspects of their material cultural heritage. Conducted in Japanese. <i>Occasional.</i>	JST 3450	CAH-JUD	3(3,0)	Modern Jewish Experience: PR: ENC 1102 or C.I. Reading in literature depicting the modern Jewish experience in the past 150 years in the Jewish transition from ghetto and traditional life to modernity in Europe, America and pre-state Israel. <i>Occasional.</i>
JOU 4224	COS-COMM	3(3,0)	Magazine Editing and Production: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, including writing and editing skills, and editorial, business, and production requirements. <i>Occasional.</i>	JPN 3760	CAH-LANG	3(3,0)	Advanced Japanese Conversation: PR: JPN 1121 or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse. <i>Occasional.</i>	JST 3481	CAH-JUD	3(3,0)	20th Century Jewish History and Thought: PR: ENC 1102 or C.I. Study of philosophers such as Buber, Rosenzweig, Kaplan, Heschel, Borowitz, Solovechik, within the historical context of European immigration to the U.S. <i>Occasional.</i>
JOU 4300	COS-COMM	3(3,0)	Feature Writing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. Writing feature articles for newspapers and magazines. <i>Fall, Even Spring.</i>	JST 3005	CAH-JUD	3(3,0)	Tenets of Judaism: PR: ENC 1101 and ENC 1102. Values, practices, and beliefs that define Judaism. <i>Occasional.</i>	JST 3550	CAH-JUD	3(3,0)	Introduction of Modernism into Judaism: The transition from traditional Judaism to modern Judaism in the 18th century, as epitomized by Moses Mendelssohn and writers of the Jewish Enlightenment (in translation). <i>Occasional.</i>
JOU 4306C	COS-COMM	3(1,2)	Critical Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works. <i>Occasional.</i>	JST 3100	CAH-JUD	3(3,0)	The Hebrew Creative Mind: Survey of Hebrew Literature in Translation. A survey of the creative expressions of Hebrew civilization as found in the Hebrew Bible, Apocrypha and Pseudepigrapha, the Mishnah, and the Talmud, Medieval Hebrew Poetry and Prose. <i>Occasional.</i>	JST 3701	CAH-JUD	3(3,0)	History of the Holocaust: A comprehensive study of the Holocaust from 1933-1945, discussing the persecution of German Jews and the annihilation of the Jews in Europe. <i>Occasional.</i>
JOU 4308	COS-COMM	3(3,0)	Freelance Writing: PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts. <i>Occasional.</i>	JST 3120	CAH-JUD	3(3,0)	Hebrew Scriptures: PR: ENC 1102, Junior standing. The Hebrew Bible (Old Testament, in translation) in historical, social, religious, cultural and literary contexts. <i>Occasional.</i>	JST 3751	CAH-JUD	3(3,0)	Literature of the Holocaust: A study of the traumatic experience of the Holocaust in Europe as expressed and depicted in contemporary Jewish and Hebrew Literature. <i>Occasional.</i>

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JST 3810	CAH-JUD	3(3,0)	LAE 5346	ED-TLP	3(3,0)	LAS 4023	CAH-AAS	3(3,0)
The Jewish National Movement and Roots of Zionism: Roots of Zionism and Jewish nationalism and their relationship to modern anti-semitism, through analysis of European Jewish history and society. <i>Occasional.</i>			Methods of Teaching English Language Arts: PR: EDG 6236 or C.I. Designed for alternative certification and Masters of Arts students to explore the strands, methods and materials related to school curriculum in teaching English. <i>Fall, Spring.</i>			African Caribbean Experience: PR: Junior standing or C.I. Interdisciplinary study of the evolution of African Caribbean culture, its influence on institutions, social and political movements, and contemporary Caribbean society. <i>Occasional.</i>		
JST 3820	CAH-JUD	3(3,0)	LAE 5367	CAH-ENG	3(3,0)	LAT 1120	CAH-LANG	4(4,1)
Modern Hebrew Culture: The Development of the State of Israel: Political and ideological struggle for the establishment of the State of Israel, with emphasis on forces which shaped contemporary Israeli society and politics. <i>Occasional.</i>			English Composition and Literature for Teachers of Advanced Placement: PR: Graduate status or senior standing, and C.I. A two-week summer institute for secondary school teachers preparing to teach Advanced Placement courses. <i>Occasional.</i>			Elementary Latin Language and Civilization I: Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. <i>Fall.</i>		
LAE 3414	ED-TLP	3(3,0)	LAE 5415	ED-TLP	3(3,0)	LAT 1120H	CAH-LANG	4(4,1)
Literature for Children: PR: Admission to Undergraduate Elementary Education Program or C.I. Criteria for analysis and evaluation of children's literature in terms of interests, needs, and abilities of children. <i>Fall, Spring.</i>			Children's Literature in Elementary Education: 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. <i>Spring.</i>			Honors Elementary Latin Language and Civilization I: PR: Permission of Honors. Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language, with honors-level content. <i>Occasional.</i>		
LAE 4314	ED-TLP	3(3,0)	LAE 5465	ED-TLP	3(3,0)	LAT 1121	CAH-LANG	4(4,1)
Language Arts in the Elementary School: PR: EDG 4323 or C.I. Content, principles, materials, and techniques involved in teaching, speaking, listening, writing, and spelling in the elementary school; organizing for instruction. <i>Fall, Spring.</i>			Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people. <i>Fall.</i>			Elementary Latin Language and Civilization II: PR: LAT 1120 or equivalent. Continuation of LAT 1120. <i>Spring.</i>		
LAE 4342	ED-TLP	3(3,0)	LAE 5495	ED-TLP	3(3,0)	LAT 1121H	CAH-LANG	4(4,1)
Teaching Language and Composition: PR: EDG 4323; CR: LAE 4360 and ESE 3940. Techniques and methods in teaching grammar, usage, dialect, and composition; includes meeting the needs of the new English language learner. <i>Fall, Spring.</i>			Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment. <i>Spring.</i>			Honors Elementary Latin Language and Civilization II: PR: LAT 1120H or equivalent and permission of Honors. Continuation of LAT 1120H, with honors-level content. <i>Occasional.</i>		
LAE 4360	ED-TLP	4(3,2)	LAH 3130	CAH-HIST	3(3,0)	LIN 3010	CAH-ENG	3(3,0)
English Instructional Analysis: PR: EDG 4323. Course objectives for a school curriculum and methods and materials which have special application for teaching English at the middle grades and high school. <i>Fall, Spring.</i>			Latin American History I: PR: EUH 2000 and 2001 or C.I. The Colonial period. <i>Occasional.</i>			Principles of Linguistics: PR: Grade of C (2.0) or better required in ENC 1102. An overview of the modern linguist's approach to language. Analytic methods of phonology, morphology, syntax. Brief systematic survey of dialectology, language acquisition, and semantics. <i>Occasional.</i>		
LAE 4361	ED-TLP	3(3,0)	LAH 3200	CAH-HIST	3(3,0)	LIN 3703	COS-PSYCH	3(3,0)
Literacy Strategies for Middle and High School: PR: EDG 4323 or EVT 3365 or C.I. Theory, teaching strategies, and resources for effective middle and high school reading programs, to assist pre-service teachers to understand content reading. <i>Fall, Odd Spring.</i>			Latin American History II: PR: EUH 2000 and 2001 or C.I. The National period. <i>Occasional.</i>			Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups. <i>Occasional.</i>		
LAE 4464	ED-TLP	3(3,0)	LAH 3400	CAH-HIST	3(3,0)	LIN 3716	HPA-COM SC&DIS	3(3,0)
Survey of Adolescent Literature: This course is designed to explore adolescent literature from both an educational and an historical perspective. <i>Fall.</i>			History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present. <i>Occasional.</i>			Language Development: Birth Through 8 Years.: PR: DEP 2004. Study of the language acquisition process in children from birth through eight years and how meaning is conveyed through sounds, words, and sentences. <i>Fall, Spring.</i>		
LAE 5195	ED-TLP	3(3,0)	LAH 3470	CAH-HIST	3(3,0)	LIN 3717	HPA-COM SC&DIS	3(3,0)
CFWP Teacher Consultant: PR: C.I. This course is designed for Fellows of the CFWP Summer Institute who will plan, practice, and present writing inservice components to public schools. <i>Occasional.</i>			History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present. <i>Occasional.</i>			Language Development: 9 - 18 Years: PR: LIN 3716. Study of the language acquisition process in children from nine through eighteen years and how meaning is conveyed through sounds, words, and sentences. <i>Fall, Spring.</i>		
LAE 5295	ED-TLP	1-3(1-3,0)	LAH 4136	CAH-HIST	3(3,0)	LIN 4105	CAH-ENG	3(3,0)
Writing Workshop I: PR: C.I. Students will engage in exploration and practice of effective writing strategies. May include teaching small groups of students. May be repeated for credit. <i>Fall, Spring.</i>			Colonial Florida: PR: AMH 2010 and AMH 2020 or C.I. History of Spanish Colonial Florida until 1821. <i>Odd Fall.</i>			History of the English Language: PR: Sophomore standing, and C (2.0) or better required in ENC 1102. Study of the English language and its development from Anglo-Saxon to Modern. <i>Fall, Spring.</i>		
LAE 5319	ED-TLP	3(3,0)	LAH 4461	CAH-HIST	3(3,0)	LIN 4615	CAH-ENG	3(3,0)
Methods of Elementary School Language Arts: PR: EDG 4323. Principles, procedures, organization and current practices in reading, writing, listening, and talking. <i>Fall.</i>			History of Puerto Rico: PR: Any two of the following: AMH 2010, AMH 2020, WOH 2012, or WOH 2022. History of Puerto Rico from pre-Columbian era to present. <i>Occasional.</i>			African-American Styles of Communication: PR: ENC 1102 and Junior Standing or C.I. African-American norms contrasted to Anglo-American norms with attention given to speech acts, kinesics, proxemics, paralinguistics, and gender roles. <i>Occasional.</i>		
LAE 5337	ED-TLP	3(3,0)	LAH 4480	CAH-HIST	3(3,0)	LIN 4643	CAH-ENG	3(3,0)
Literacy Strategies for Middle and Secondary Teaching: PR: EDG 6236 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. <i>Occasional.</i>			History of Cuba: PR: Any two of the following: AMH 2010, AMH 2020, WOH 2012, or WOH 2022. History of Cuba from pre-Columbian era to present. <i>Occasional.</i>			Cross Cultural Communication: PR: Junior standing or C.I., and C (2.0) or better required in ENC 1102. Styles of spoken, written, and nonverbal communication of selected cultural groups. <i>Occasional.</i>		
LAE 5338	ED-TLP	3(3,0)	LAH 4742	CAH-HIST	3(3,0)	LIN 4643H	CAH-ENG	3(3,0)
Teaching Writing in Middle and High School: PR: EDG 6236 or C.I. Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing. <i>Fall, Spring.</i>			The Mexican Revolution: PR: AMH 2020 or C.I. Political and social history of Mexico since 1910 and domination of one party rule over 70 years. <i>Occasional.</i>			Honors Cross-Cultural Communication: PR: ENC 1102H and permission of Honors. Styles of spoken, written, and nonverbal communication of selected cultural groups with honors level content. <i>Occasional.</i>		
			LAH 5713	CAH-HIST	3(3,0)			
			Colloquium in U.S.-Latin American Relations: PR: Graduate status or senior standing or C.I. The course will analyze U.S.-Latin American relations from an historical perspective. It will be presented through readings and discussion of selected materials. <i>Occasional.</i>					

LIN 4660	CAH-ENG	3(3,0)	LIT 3192H	CAH-ENG	3(3,0)	LIT 4184	CAH-ENG	3(3,0)
Linguistics and Literature: PR: Grade of C (2.0) or better required in LIN 3010 or C.I. Language study as an aid to understanding literature. <i>Occasional.</i>			Honors Caribbean Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. How Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; taught in English. Honors content. <i>Occasional.</i>			Irish Literature: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience. <i>Occasional.</i>		
LIN 4680	CAH-ENG	3(3,0)	LIT 3202	CAH-ENG	3(3,0)	LIT 4303	CAH-ENG	3(3,0)
Modern English Grammar: PR: Sophomore standing, and C (2.0) or better required in ENC 1102. Emphasis upon the analysis and comparison of traditional, structural, and transformational grammar. <i>Spring.</i>			Death and Dying: PR: ENC 1102. Considering the topic of death and dying through a study of literature, the course includes facts, psychological impact, ideological responses to death and identity. <i>Occasional.</i>			Post-World War II Fiction: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries. <i>Occasional.</i>		
LIN 4711	HPA-COM SC&DIS	3(3,0)	LIT 3313	CAH-ENG	3(3,0)	LIT 4374	CAH-ENG	3(3,0)
Language Analysis: PR: LIN 3716 and LIN 3717. CR: LIN 4711L. Introduction to procedures for sampling, analyzing, and describing language across the lifespan. <i>Fall, Spring.</i>			Science Fiction: PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings. <i>Occasional.</i>			Literature of the Bible: PR: Grade of C (2.0) or better required in ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. <i>Occasional.</i>		
LIN 4711L	HPA-COM SC&DIS	1(0,1)	LIT 3313H	CAH-ENG	3(3,0)	LIT 4374H	CAH-ENG	3(3,0)
Language Analysis Lab: PR: LIN 3716 and LIN 3717. CR: LIN 4711. Introduction to procedures for sampling, analyzing and describing language samples across the lifespan. Graded S/U. <i>Fall, Spring.</i>			Honors Science Fiction Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with selected readings. Honors content. <i>Occasional.</i>			Honors Literature of the Bible: PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Honors content. <i>Occasional.</i>		
LIN 4801	CAH-ENG	3(3,0)	LIT 3383	CAH-ENG	3(3,0)	LIT 4433	CAH-ENG	3(3,0)
Language and Meaning: PR: ENC 1102 and Sophomore standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings. <i>Occasional.</i>			Women in Literature: PR: ENC 1102. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. <i>Occasional.</i>			Literature of Science and Technology: PR: ENC 1102 and Junior Standing or C.I. Major works of non-fiction that address and describe the history, philosophy, politics, and new ideas in science and technology. <i>Fall.</i>		
LIN 5137	CAH-ENG	3(3,0)	LIT 3383H	CAH-ENG	3(3,0)	LIT 4554	CAH-ENG	3(3,0)
Linguistics: PR: 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. <i>Occasional.</i>			Honors Women in Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Honors content. <i>Occasional.</i>			Advanced Feminist Theories: PR: Grade of C (2.0) or better required in ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices. <i>Occasional.</i>		
LIN 5675	CAH-ENG	3(3,0)	LIT 3394	CAH-ENG	3(3,0)	LIT 4937H	CAH-ENG	3(3,0)
English Grammar and Usage: PR: 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. <i>Occasional.</i>			Literature of AIDS: PR: ENC 1102. To familiarize students with the new genre of literature that has arisen related to AIDS. Essays, short stories, plays, poetry, diaries, and novels will be covered. <i>Occasional.</i>			English Honors Seminar: PR: ENG 3014 and permission of Honors. In-depth study of language and/or literature with an emphasis on creative and critical abilities. <i>Occasional.</i>		
LIT 2000	CAH-ENG	3(3,0)	LIT 3394H	CAH-ENG	3(3,0)	LIT 5028	CAH-ENG	3(3,0)
Introduction to Literary Interpretation: PR: ENC 1102. Interpretation of fiction, drama, verse: conflict, characterization, point of view, rhetorical and poetic devices, figurative language, verse forms; application of critical approaches to selected works. <i>Occasional.</i>			Honors Literature of AIDS: PR: Permission of Honors and ENC 1102H or equivalent credit. Literature related to AIDS: Essays, short stories, plays, poetry, diaries, and novels. Honors content. <i>Occasional.</i>			Form and Theory of Short Story: PR: Graduate status or senior standing or C.I. Evolving forms and theories of short fiction and the implications of form and theory. <i>Occasional.</i>		
LIT 2110	CAH-ENG	3(3,0)	LIT 3482	CAH-ENG	3(3,0)	LIT 5269	CAH-ENG	3(3,0)
World Literature I: PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe. <i>Fall, Spring.</i>			Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions. <i>Occasional.</i>			Nineteenth-Century Essays: PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century. <i>Occasional.</i>		
LIT 2120	CAH-ENG	3(3,0)	LIT 3823	CAH-ENG	3(3,0)	LIT 5309	CAH-ENG	3(3,0)
World Literature II: PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others. <i>Fall, Spring.</i>			Hispanic Women Writers: PR: ENC 1102. Hispanic women writers in a variety of genres. May be repeated for credit. <i>Occasional.</i>			Popular Culture and Media: PR: Graduate status or senior standing or C.I. Study of contemporary media and the literature of popular culture. <i>Occasional.</i>		
LIT 2120H	CAH-ENG	3(3,0)	LIT 3905	CAH-ENG	3(3,0)	LIT 5366	CAH-ENG	3(3,0)
World Literature II — Honors: PR: Permission of Honors. Same as LIT 2120, with honors-level content. <i>Occasional.</i>			Directed experience in Literature: PR: ENC 1102, C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit. <i>Occasional.</i>			The Romantic Revolt (19th Century Literature): PR: Graduate status or senior standing or C.I. The romantic revolt in poetry and prose: English, American and Continental literature from 1798 to 1832. <i>Occasional.</i>		
LIT 3082	CAH-ENG	3(3,0)	LIT 3911H	CAH-ENG	1(1,0)	LIT 5387	CAH-ENG	3(3,0)
Continental European Fiction Since 1900: PR: Grade of C (2.0) or better required in ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation. <i>Occasional.</i>			Research Methods — Honors: PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing. <i>Occasional.</i>			Captives, Housewives, and Coquettes: PR: Graduate status or senior standing or C.I. Course considers early American women's literature from 17th to 19th centuries. <i>Occasional.</i>		
LIT 3192	CAH-ENG	3(3,0)	LIT 4043	CAH-ENG	3(3,0)	LIT 5389	CAH-ENG	3(3,0)
Caribbean Literature: PR: Grade of C (2.0) or better required in ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; in English. <i>Occasional.</i>			Modern Drama As Literature: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama. <i>Occasional.</i>			Studies in Gender & Fiction Writing: PR: Graduate status or senior standing or C.I. Graduate study of writer's implications for teaching and practice of fiction writing. <i>Occasional.</i>		
						LIT 5556	CAH-ENG	3(3,0)
						Advanced Feminist Theories: PR: Graduate status or senior standing or C.I. Graduate level Feminist Theories from "French Feminism" to "Critical Race Theories.". <i>Occasional.</i>		

UCF Courses and Descriptions

<p>MAA 4226 COS-MATH 4(4,0) Advanced Calculus I: PR: MHF 3302, MAC 2313 and MAS 3106, or C.I. Limits, sequences, and continuity, differentiation and integration. Derivations of integrals. Infinite series and convergence. The Balzano Weierstrass Theorem and the Heine-Borel Theorem. Extensions in Euclidian n-space. <i>Fall.</i></p>	<p>MAC 2233 COS-MATH 3(3,0) Concepts of Calculus: PR: MAC 1105 or C.I. The differential and integral calculus of rational, exponential and logarithmic functions, with applications to business analysis. Not open to students with credit in MAC 2253 or MAC 2311. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>MAD 4203 COS-MATH 3(3,0) Applied Combinatorics: PR: MAC 2312, and either MHF 3302 or COT 3100C, or C.I. Counting principles; permutations and combinations, multisets; recurrence relations and generating functions; combinatorial designs; the Polya theory of counting. <i>Fall.</i></p>
<p>MAA 4227 COS-MATH 3(3,0) Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226. <i>Spring.</i></p>	<p>MAC 2241 COS-MATH 4(4,0) Calculus for Life Sciences: PR: MAC 1105. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biologists and others required to have one semester of calculus. The "NC" grading policy applies to this course. <i>Occasional.</i></p>	<p>MAD 4301 COS-MATH 3(3,0) Graph Theory: PR: MAC 2313 and MHF 3302, or C.I. Graph theory; isomorphism, connectivity; traversability, matchings, factorizations; planarity, colorings, and Ramsey number. <i>Spring.</i></p>
<p>MAA 5210 COS-MATH 4(4,0) Topics in Advanced Calculus: PR: MAA 4226 or equivalent, graduate status or senior standing, or C.I. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor's theorem, inverse and implicit function theorems. <i>Fall.</i></p>	<p>MAC 2253 COS-MATH 3(3,0) Applied Calculus I: PR: MAC 1105 and MAC 1114 or C.I. Differential and integral calculus. An introduction to differential equations and Laplace Transforms. Applications to engineering technology. Not open to students with credit in MAC 2233 or MAC 2311. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>MAD 5205 COS-MATH 3(3,0) Combinatorics and Graph Theory II: PR: MAD 4203, graduate status or senior standing, or C.I. Polya's theory of counting; Latin squares and rectangles; block designs; coding theory; probabilistic methods; hypergraphs; applications. <i>Odd Spring.</i></p>
<p>MAA 5405 COS-MATH 3(3,0) Complex Variables: PR: MAC 2313, and graduate status or senior standing or C.I. Analytic functions. Integration in the complex plane. Laurent series and residue calculus. Inversion of Laplace transformations. Conformal mappings. Applications in engineering and the physical sciences. <i>Fall.</i></p>	<p>MAC 2254 COS-MATH 3(3,0) Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253. <i>Fall, Spring.</i></p>	<p>MAE 2801 ED-TLP 4(3,1) Elementary School Mathematics: PR: MAC 1105 or MGF 1106. Mathematics appropriate for the elementary school including the six basic sets of numbers, concepts, learning sequences, algorithms, problem-solving techniques, error patterns, number systems, and geometry. <i>Fall, Spring.</i></p>
<p>MAA 5416 COS-MATH 3(3,0) Foundations of Analysis: PR: MAA 4226, and graduate status or senior standing or C.I. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss' theorems. <i>Odd Spring.</i></p>	<p>MAC 2311 COS-MATH 4(4,0) Calculus with Analytic Geometry I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. The differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the 2nd and 3rd semesters the topics also include sequences and series, Taylor series, and the differential and integral calculus for functions of several variables. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>MAE 4300 ED-CFCS 3(3,0) Math Curriculum and Assessment in Early Childhood: PR: EEC 4XXX ECE Theory and Practice, EEC 4207; CR: EEC 3940. Methodologies for teaching and assessing young children in mathematics concepts and skills through an integrated, developmentally appropriate program. <i>Fall.</i></p>
<p>MAC 1105 COS-MATH 3(3,0) College Algebra: PR: Intermediate algebra or 2 years of high school algebra or C.I. Inequalities. High degree polynomials. Graphs, rational, logarithmic, and exponential functions. Systems of equations, matrices, determinants, induction. This course prepares students for higher-level mathematics courses. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>MAC 2311H COS-MATH 4(4,0) Calculus with Analytic Geometry I (Honors): PR: Permission of Honors. Differential and integral calculus, emphasizing understanding basic concepts and their applications. Students will complete projects on their own. For honors students from all disciplines. The "NC" grading policy applies to this course. <i>Occasional.</i></p>	<p>MAE 4326 ED-TLP 3(3,0) How Children Learn Mathematics: PR: MAE 2801 or C.I., and admission to Phase II. Instructional strategies, learning activities, the use of manipulatives, lesson planning, evaluation of mathematical learning, and diagnostic techniques. <i>Fall, Spring.</i></p>
<p>MAC 1105H COS-MATH 3(3,0) Honors College Algebra: PR: Appropriate score on placement test and permission of Honors. Analysis of functions (including polynomial, rational, exponential, logarithmic), analysis of conic sections, analysis of systems of linear equations, sequences and series, mathematical induction, and the binomial theorem. The "NC" grading policy applies to this course. <i>Occasional.</i></p>	<p>MAC 2312 COS-MATH 4(4,0) Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311. <i>Fall, Spring.</i></p>	<p>MAE 4360 ED-TLP 4(3,2) Mathematics Instructional Analysis: PR: EDG 4323. Study of course objectives for the middle grades and high school curriculum and survey of methods and materials which have special application for teaching mathematics. <i>Fall.</i></p>
<p>MAC 1114 COS-MATH 3(3,0) College Trigonometry: PR: MAC 1105 or 2 years of high school algebra or C.I. The circle arc length, circular functions, identities, inverse functions, applications to simple harmonic motion, function of angles, complete development of triangle solving. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>MAC 2312H COS-MATH 4(4,0) Calculus with Analytic Geometry II (Honors): PR: Permission of Honors. Continuation of MAC 2311H. <i>Occasional.</i></p>	<p>MAE 4634 ED-TLP 3(2,1) Programs in Teaching of Mathematics: PR: C.I. A consideration of special programs, strategies, and materials. Emphasis on individual needs of students. <i>Spring.</i></p>
<p>MAC 1140 COS-MATH 3(3,0) Pre-Calculus Algebra: PR: Math placement test, or 2 years of high school algebra, or C.I. Properties and graphs of polynomials, rational, exponential and logarithmic functions, matrices, sequences and series, induction, binomial theorem. Prepares students for upper level mathematics. <i>Fall, Spring.</i></p>	<p>MAC 2313 COS-MATH 4(4,0) Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312. <i>Fall, Spring.</i></p>	<p>MAE 5318 ED-TLP 3(3,0) Current Methods in Elementary School Mathematics: PR: EDG 4323. Strategies of instruction of computation and concepts of number, geometry, and measurement; instructional materials. (Meets Elementary Education certification requirements.). <i>Fall, Spring.</i></p>
<p>MAC 2147 COS-MATH 5(5,0) Mathematics for Calculus: PR: Solid background in algebra or trigonometry, or C.I. For students with good mathematical backgrounds who do not want to go directly into calculus. Topics include matrices, determinants, permutations, combinations, sequences, series, induction, trigonometric functions. The "NC" grading policy applies to this course. <i>Even Fall, Spring.</i></p>	<p>MAC 2313H COS-MATH 4(4,0) Calculus with Analytic Geometry III (Honors): PR: Permission of Honors. Continuation of MAC 2312H. <i>Occasional.</i></p>	<p>MAE 5327 ED-TLP 3(3,0) Teaching Middle School Mathematics: PR: EDG 6236 or C.I. 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. <i>Occasional.</i></p>
<p>MAC 2147 COS-MATH 5(5,0) Mathematics for Calculus: PR: Solid background in algebra or trigonometry, or C.I. For students with good mathematical backgrounds who do not want to go directly into calculus. Topics include matrices, determinants, permutations, combinations, sequences, series, induction, trigonometric functions. The "NC" grading policy applies to this course. <i>Even Fall, Spring.</i></p>	<p>MAC 3103H COS-MATH 3(3,0) Systems Modeling and Simulation: PR: Permission of Honors and MAC 2312. Population growth dynamics; spread of an epidemic; ecological predator-prey relationships; insulin and its use in the control of diabetes; economic systems. <i>Occasional.</i></p>	<p>MAE 5336 ED-TLP 3(3,0) Current Methods in Secondary School Mathematics: PR: EDG 4323 or EDG 6236 or C.I. Required special methods course for mathematics 6-12 certification. Assessment, curriculum, technology, practical classroom ideas and activities. <i>Occasional.</i></p>
<p>MAD 2104 COS-MATH 3(3,0) Foundations of Discrete Math: PR: 2 years of high school algebra and 1 year of geometry or C.I. Basic mathematical logic, methods of proof in mathematics, and application to elementary discrete structure. <i>Fall, Spring.</i></p>	<p>MAC 5327 ED-TLP 3(3,0) Teaching Middle School Mathematics: PR: EDG 6236 or C.I. 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. <i>Occasional.</i></p>	<p>MAE 5935 COS-MATH 3(3,0) Post-Secondary Mathematics: PR: Graduate status 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. <i>Even Fall.</i></p>

<p>MAN 3025 BA-MAN 4(4,0) Management of Organizations: PR: Junior standing and business major or minor, ACG 2071, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control. <i>Fall, Spring.</i></p>	<p>MAN 4441 BA-MAN 3(3,0) Conflict Resolution and Negotiation: PR: MAN 3025. Conflict resolution and negotiation theories and processes applied to human resource management practices and other management activities in work organizations. <i>Occasional.</i></p>	<p>MAP 2302 COS-MATH 3(3,0) Differential Equations: PR: MAC 2313 or C.I. Methods of solution for first order equations. Linear equations. Laplace transforms. Series solutions. Selected applications. <i>Fall, Spring.</i></p>
<p>MAN 3025H BA-MAN 4(4,0) Honors Management of Organizations: PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023 and ACG 2071. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior, and control. Applicable to honors students. <i>Occasional.</i></p>	<p>MAN 4521 BA-MAN 3(3,0) Production Planning and Control: PR: Management major, ISM 3530. In depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization. <i>Occasional.</i></p>	<p>MAP 2302H COS-MATH 3(3,0) Differential Equations (Honors): PR: Permission of Honors and MAC 2313 or C.I. Methods of solution for first order equations. Linear equations. Numerical methods; Laplace transforms. Series solutions. Selected applications. Students will complete projects. For Honors students from all disciplines. <i>Occasional.</i></p>
<p>MAN 3301 BA-MAN 3(3,0) Management of Human Resources: PR: Management major, MAN 3025, Junior Standing. Provides students with a complete, comprehensive review of essential human resource management concepts and techniques. Applicable to all students of management. <i>Fall, Spring.</i></p>	<p>MAN 4600 BA-MAN 3(3,0) International Management: PR: Management major, GEB 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management. <i>Fall, Spring.</i></p>	<p>MAP 3401 ECS-ENT 3(3,0) Problem Analysis: PR: MAC 2311 or MAC 2253 or equivalent. Application of calculus techniques used in solving selected problems in Engineering Technology. <i>Fall, Spring.</i></p>
<p>MAN 4029 BA-MAN 3(3,0) Service Organization Management: PR: Management major, MAN 3025 and ISM 3530. Study of the special characteristics, problems, and methods for managing service-oriented organizations. <i>Occasional.</i></p>	<p>MAN 4701 BA-MAN 3(3,0) Business Ethics and Society: PR: Management major, MAN 3025. This course applies the ethics dimension to business decisions in today's complex political, social, economic and technological environment. <i>Fall, Spring.</i></p>	<p>MAP 3937 COS-MATH 1(1,0) Techniques of Problem Solving: PR: MAC 2311 and CR:MAC 2312; or C.I. Methods for solving problems in a wide variety of mathematical fields, with emphasis on proper mathematical technique and writing of solutions. May be repeated for credit. <i>Fall.</i> *Note: The published catalog's description of this course was incorrect.</p>
<p>MAN 4101 BA-MAN 3(3,0) Human Relations in Management: PR: Management major, MAN 3025. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of cases and experimental exercises. <i>Fall, Spring.</i></p>	<p>MAN 4720 BA-MAN 4(4,0) Strategic Management: PR: MAN 3025, MAR 3023, FIN 3403 and GEB 3031. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities. <i>Fall, Spring.</i></p>	<p>MAP 4103 COS-MATH 3(3,0) Mathematical Modeling I: PR: MAC 2311 and MAP 2302. An overview of model construction. Model fitting, optimization models, empirical construction and modeling dynamic behavior. <i>Spring.</i></p>
<p>MAN 4240 BA-MAN 3(3,0) Organizations: Theory and Behavior: PR: Management major, MAN 3025. A course providing a micro/macro approach to the study of organizations by integrating organizational theory and organizational behavioral science concepts. <i>Fall, Spring.</i></p>	<p>MAN 4720H BA-MAN 4(4,0) Honors Strategic Management: PR: Permission of Honors and Graduating semester. Capstone course integrates and applies management theories, and frameworks to tackle modern organizational planning problems, and opportunities. Honors content. <i>Occasional.</i></p>	<p>MAP 4153 COS-MATH 3(3,0) Vector and Tensor Analysis: PR: MAC 2313 or C.I. Vector calculus. The theorems of Green, Gauss and Stokes. Introduction to tensors. Application in engineering and physical sciences. <i>Fall.</i></p>
<p>MAN 4310 BA-MAN 3(3,0) Human Resource Management Issues: PR: Management major, Junior standing, MAN 3301. An application-oriented course to give students in the area experiences generally reserved for practitioners in the field of human resource management and labor relations. <i>Odd Spring.</i></p>	<p>MAN 4802 BA-MAN 3(3,0) Entrepreneurship: PR: GEB 3031 or (MAN 3025 and MAR 3023). Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and developing a new venture. <i>Fall, Spring.</i></p>	<p>MAP 4171 COS-MATH 3(3,0) Optimization for Actuarial Science: PR: MAC 2312 and STA 2023. Linear and dynamic programming, project scheduling, integer programming, theory of queues and stochastic simulation. <i>Occasional.</i></p>
<p>MAN 4320 BA-MAN 3(3,0) Human Resources Recruitment and Selection: PR: Management major, MAN 3301. A concentrated investigation of the methods appropriate to the development, implementation and administration of the staffing process in contemporary organizations. <i>Fall, Spring.</i></p>	<p>MAN 4804 BA-MAN 3(3,0) Small Business Consulting: PR: 3.0 GPA and Business major in graduation term or C.I. Students are assigned teams and work with a local small business. <i>Occasional.</i></p>	<p>MAP 4307 COS-MATH 3(3,0) Applications of Complex Variables (Advanced Engineering Math Series): PR: MAP 2302. Analytic functions and complex integration. Residue integration, Taylor and Laurent series, conformal mapping and the application of complex analysis to Potential Theory. <i>Spring.</i></p>
<p>MAN 4330 BA-MAN 3(3,0) Compensation Administration: PR: Management major, MAN 3301. Presentation of compensation theory and current pay related issues and their application to the design and administration of pay systems in large and small organizations. <i>Fall, Odd Spring.</i></p>	<p>MAN 4941 BA-MAN 3(0,3) Management Internship: PR: Management major, application approval, consent of department chair. Provides student with supervised, management-related work experience in a sponsoring organization. See department for information; application required. NOTE: MAN 4941 may not be counted for restricted elective credit in management. May be repeated for credit. <i>Occasional.</i></p>	<p>MAP 4363 COS-MATH 3(3,0) Applied Boundary Value Problems I: PR: MAP 2302 or C.I. Systems of linear equations. Fourier series. The eigenvalue problem of Sturm-Liouville. The method of Green's functions. <i>Fall.</i></p>
<p>MAN 4350 BA-MAN 3(3,0) Training and Development: PR: Management major, MAN 3301. This course focuses on training and development activities as performed by organizational specialists. Theory, issues, practices and problems are discussed. <i>Fall, Spring.</i></p>	<p>MAN 5021 BA-MAN 1.5(1.5,0) Management Foundations: PR: Graduate standing or C.I. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control. <i>Fall, Spring.</i></p>	<p>MAP 4364 COS-MATH 3(3,0) Applied Boundary Value Problems II: PR: MAP 4363 or C.I. Legendre polynomials and Bessel functions. The theory of Sturm-Liouville. Separation of variables. Applications involving the wave equation, heat equation and equation of Laplace. <i>Spring.</i></p>
<p>MAN 4401 BA-MAN 3(3,0) Labor Relations Management: PR: Management major, Junior standing, MAN 3301. The impact of employee organizations on labor relations, current problems, conflicts and trends; the development of managerial approaches to achieve labor-management cooperation. <i>Occasional.</i></p>	<p>MAN 5050 BA-MAN 2(2,0) Management Concepts: PR: Acceptance in MBA program. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control. <i>Occasional.</i></p>	<p>MAP 4371 COS-MATH 3(3,0) Numerical Methods for Differential Equations: PR: MAC 2313, MAS 3105 or C.I. Numerical theory and practices used in solving ordinary differential equations and PDE. Covers Euler's method, trapezoidal rule, multi-step methods, Runge-Kutta, error control, finite differences, implicit and explicit schemes, iterative methods, and stability. <i>Occasional.</i></p>
	<p>MAN 5867 BA-MAN 3(3,0) Small Business Institute: PR: C.I. Hands-on small business consulting course. Students are assigned teams and work with a local small business. <i>Even Fall, Even Spring.</i></p>	<p>MAP 5106 COS-MATH 3(3,0) Introduction to Quantitative Aspects of Modeling and Simulation: PR: MAC 2253, graduate status or senior standing, or C.I. An introduction to calculus, matrix algebra, probability and statistics, and high level programming languages. A student who has mastered this content does not have to take this course. <i>Occasional.</i></p>

UCF Courses and Descriptions

<p>MAP 5117 COS-MATH 3(3,0) Mathematical Modeling: PR: STA 4321, MAP 4363, graduate status or senior standing, or C.I. Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models. <i>Fall.</i></p>	<p>MAR 3023H BA-MAR 4(4,0) Marketing - Honors: PR: Permission of Honors College. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control. <i>Fall.</i></p>	<p>MAR 4711 BA-MAR 3(3,0) Sport Marketing: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Study of marketing as it applies to the sports and leisure industry. <i>Occasional.</i></p>
<p>MAP 5336 COS-MATH 3(3,0) Ordinary Differential Equations and Applications: PR: MAP 2302, and graduate status or senior standing or C.I. Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations. <i>Spring.</i></p>	<p>MAR 3323 BA-MAR 3(3,0) Integrated Marketing Communication: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs. <i>Fall, Spring.</i></p>	<p>MAR 4712 BA-MAR 3(3,0) Healthcare Marketing: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers. <i>Occasional.</i></p>
<p>MAP 5385 COS-MATH 3(3,0) Applied Numerical Mathematics: PR: MAP 2302, graduate status or senior standing, or C.I. Classical topics or numerical analysis and their applications, Romberg integration, Richardson extrapolation, Gaussian quadrature schemes. <i>Spring.</i></p>	<p>MAR 3391 BA-MAR 3(3,0) Professional Selling: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling. <i>Fall, Spring.</i></p>	<p>MAR 4715 BA-MAR 3(3,0) Entertainment Marketing: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Application of marketing theory and tools to the marketing of products and services in the entertainment industry. <i>Occasional.</i></p>
<p>MAP 5396 COS-MATH 3(3,0) Splines and Data Fitting: PR: MAS 3106, MAS 3105, MAP 2302, and graduate status or senior standing or C.I. Univariate splines and their application to data fitting. Applications to regression analysis, differential and integral equations. Algorithms to use different types of splines in computation. <i>Occasional.</i></p>	<p>MAR 3403 BA-MAR 3(3,0) Sales Force Management: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. An overview of the sales management process. Emphasis on sales program formulation and implementation. <i>Fall, Spring.</i></p>	<p>MAR 4724 BA-MAR 3(3,0) Strategic Foundations in Global E-Business: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Course inspects the forces shaping managerial decision-making in a new rapidly changing electronic global marketplace. Emphasis on product-market entry strategies, standardization/adaptation, and organizing for efficient international marketing operations. <i>Occasional.</i></p>
<p>MAP 5404 COS-MATH 3(3,0) Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 2302, ESI 5219 or equivalent, ESI 4312, and graduate status or senior standing or C.I. Methods of proof, set theory; basic elements of topology, real analysis, graph theory, and matrix analysis. <i>Occasional.</i></p>	<p>MAR 3503 BA-MAR 3(3,0) Customer Behavior: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. End user and business customer buying behavior, building long-term customer relationships, segmentation of markets and positioning strategies. <i>Fall, Spring.</i></p>	<p>MAR 4803 BA-MAR 3(3,0) Marketing Management: PR: MAR 3023 and common program prerequisites and Marketing Major or Minor and MAR 3503 and MAR 3613. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments. <i>Fall, Spring.</i></p>
<p>MAP 5407 COS-MATH 3(3,0) Applied Mathematics I: PR: MAP 2302, and graduate status or senior standing or C.I. Calculus of variations, Hamilton's principle, Rayleigh-Ritz method, Sturm-Liouville theory, Green's functions for ordinary differential equations, introduction to integral equations. <i>Fall.</i></p>	<p>MAR 3613 BA-MAR 3(3,0) Marketing Analysis and Research: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor and one of the following: STA 3032 or ECO 3411. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized. <i>Fall, Spring.</i></p>	<p>MAR 4804 BA-MAR 3(3,0) Marketing Strategy: PR: MAR 3023 and common program prerequisites and Marketing Major or Minor and MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making. <i>Fall, Spring.</i></p>
<p>MAP 5426 COS-MATH 3(3,0) Special Functions: PR: 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. <i>Occasional.</i></p>	<p>MAR 3641 BA-MAR 3(3,0) Marketing Intelligence: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Contemporary sources and applications of information concerning external forces impacting market decision making. <i>Fall, Spring.</i></p>	<p>MAR 4841 BA-MAR 3(3,0) Services Marketing: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Examination of marketing in services industries, with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of services strategies. <i>Fall, Spring.</i></p>
<p>MAP 5435 COS-MATH 3(3,0) Advanced Mathematics for Engineers: PR: 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. <i>Occasional.</i></p>	<p>MAR 3880 BA-MAR 3(3,0) E-Marketing: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Course provides an in-depth study of the role of the internet in developing marketing strategies and plans. <i>Occasional.</i></p>	<p>MAR 4941 BA-MAR 3(3,0) Marketing Internship: PR: Marketing major, application approval, consent of department chair. Provides student with supervised, market-related work experience in a sponsoring organization. Application required. <i>Fall, Spring.</i></p>
<p>MAP 5514 COS-MATH 3(3,0) Linear and Nonlinear Waves I: PR: MAP 2302, MAP 4363, and graduate status or senior standing, or C.I. Equations of motion in inviscid and viscous fluids, energy equation and energy flux, linear theory of gravity and capillary-gravity waves, variational principles for water waves. <i>Occasional.</i></p>	<p>MAR 4156 BA-MAR 3(3,0) International Marketing: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Investigates strategy, policy and the variables in international marketing decisions. <i>Fall, Spring.</i></p>	<p>MAS 3105 COS-MATH 4(4,0) Matrix and Linear Algebra: PR: MAC 2312 or C.I. Matrices, determinants, vector spaces in R^n, linear independence, basis, solutions of systems, range of linear transformations, eigenvectors, Jordan Form, matrix functions, quadratic forms. <i>Fall, Spring.</i></p>
<p>MAP 5931 COS-MATH 1(1,0) Research Seminar: PR: Graduate status or senior standing or C.I. Four instructors will introduce the students to a research area by presenting necessary background and presenting current investigations. Different branches of mathematics will be presented for a sense of diversity. <i>Occasional.</i></p>	<p>MAR 4231 BA-MAR 3(3,0) Retailing Management: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc. <i>Occasional.</i></p>	<p>MAS 3106 COS-MATH 4(4,0) Linear Algebra: PR: MHF 3302, MAS 3105, or C.I. Abstract vector spaces, linear transformations, isomorphisms, projections, innerproducts, the spectral theorem, Jordan Canonical Form. (Only offered spring semester). <i>Spring.</i></p>
<p>MAR 3023 BA-MAR 4(4,0) Marketing: PR: Admission to UCF. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad. <i>Fall, Spring.</i></p>	<p>MAR 4392 BA-MAR 3(3,0) Advanced Professional Selling: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor and MAR 3391 and Department Consent. Advanced study of the professional selling process, including team selling, negotiating, customer conflict management, and CRM systems. <i>Fall.</i></p>	<p>MAS 3203 COS-MATH 3(3,0) Introduction to Number Theory: PR: MHF 3302 or C.I. The course will include the following topics: inductive reasoning, factorization, the division algorithm and congruences. <i>Spring.</i></p>
<p>MAR 4413 BA-MAR 3(3,0) Strategic Issues in Sales: PR: MAR 3023 and common program prerequisites and appropriate Major or Minor and MAR 4392 and Department consent. Advanced study of selected contemporary strategic issues in selling and sales management. <i>Spring.</i></p>		

<p>MAS 4301 COS-MATH 3(3,0) Abstract Algebra I: PR: MHF 3302 and MAS 3106, or C.I. Sets and mappings, groups, subgroups, permutation groups, homomorphisms and isomorphisms, the isomorphism theorems, groups actions, the class equation, Sylow theorems, and rings. <i>Fall.</i></p>	<p>MCB 3404 BCBS-M&M 3(3,0) Bacterial Genetics and Physiology: PR: MCB 3020C. Bacterial Genetics and Physiology: PR: MCB 3020C. Basic principles of microbial genetic analysis and emphasizing how; microbial genetic approaches are used to understand fundamental; physiological processes in bacteria. <i>Spring.</i> *Note: The published catalog's description of this course was incorrect.</p>	<p>MCB 5225 BCBS-M&M 3(3,0) Molecular Biology of Disease: PR: Graduate standing or C.I. An in-depth study of the molecular biological mechanisms of diseases in experimental animal models and human populations. <i>Occasional.</i></p>
<p>MAS 4302 COS-MATH 3(3,0) Abstract Algebra II: PR: MAS 4301 or C.I. Advanced topics in abstract algebra, including ring theory and field theory; introduction to Galois theory. <i>Spring.</i></p>	<p>MCB 3522H BCBS-M&M 3(3,0) Biotechnology and Genetic Engineering Seminar: PR: Permission of Honors. Principles, applications, laws, ethics and impact on society of biotechnology and genetic engineering in agriculture, medicine, forestry, environment, computer/ industrial/ chemical engineering and business administration. <i>Occasional.</i></p>	<p>MCB 5505 BCBS-M&M 3(3,0) Molecular Virology: PR: 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. <i>Occasional.</i></p>
<p>MAS 4934 COS-MATH 3(3,0) Topics in Algebra and Discrete Mathematics: PR: MAS 3106, MAS 4301, and MAD 4203 or MAD 4301, or C.I. Advanced topics in abstract algebra and discrete mathematics. Selection of topics will vary. May be used in the degree program a maximum of 3 times. <i>Occasional.</i> *Note: The published catalog's description of this course was incorrect.</p>	<p>MCB 4114C BCBS-M&M 4(3,3) Determinative & Systemic Microbiology: PR: MCB 3020C, MCB 3203. Microbial classification taxonomic rules and nomenclature techniques for identification and interrelating the phyla and taxa of bacteria. <i>Occasional.</i> M&S fee: \$15.00</p>	<p>MCB 5527 BCBS-M&M 3(3,0) Genetic Engineering and Biotechnology: PR: 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. <i>Fall.</i></p>
<p>MAS 5145 COS-MATH 3(3,0) Advanced Linear Algebra and Matrix Theory: PR: MAS 3105, and graduate status or senior standing of C.I. LU and LDU decompositions, linear spaces, inner product spaces, systems of linear equations, eigenvalues and canonical forms, variational principles and applications. <i>Occasional.</i></p>	<p>MCB 4203 BCBS-M&M 3(3,0) Infectious Processes: PR: MCB 3020C. The infectious process and the response of host cells and tissue to infection. <i>Fall.</i></p>	<p>MCB 5654 BCBS-M&M 3(3,0) Applied Microbiology: PR: MCB 3020C or C.I. Microbial biochemistry of industrial processes including: economics, screening, scale up, quality control and applied genetics. <i>Occasional.</i></p>
<p>MAS 5311 COS-MATH 3(3,0) Abstract Algebra with Applications: PR: MAS 4301 or undergraduate abstract algebra, and graduate status or senior standing or C.I. Group actions, the class equation, Sylow Theorems, polynomial rings, Euclidian domains, principal ideal domains, field extensions, modules, and semi-simple rings. <i>Fall.</i></p>	<p>MCB 4204 BCBS-M&M 3(3,0) Cellular Microbiology: Host-Pathogen Interactions: PR: MCB 3020C, PCB 3522. Examination of the molecular details of host-pathogen interactions. Key areas of cell biology will be considered in relation to microbial pathogenesis. <i>Spring.</i></p>	<p>MCB 5722C BCBS-M&M 4(2,4) Methods in Biotechnology: PR: Graduate standing. A laboratory course that will train graduate students in fluorescence and luminescence-based assays used in biopharmaceutical industry for target validation. <i>Occasional.</i></p>
<p>MAT 5711 COS-MATH 3(3,0) Scientific Computing: PR: MAC 2313, MAP 2302, graduate status or senior standing, or C.I. Basic programming skills using Mathematica, Maple, Matlab, or Java in solving basic scientific computing problems; preparing students for advanced computational methods and algorithms. <i>Fall.</i></p>	<p>MCB 4276 BCBS-M&M 3(3,0) Epidemiology of Infectious Diseases: PR: MCB 3020C. Study of descriptive and analytic epidemiology and its application to the analysis of infectious diseases and in the community health status. <i>Spring.</i></p>	<p>MCB 5932 BCBS-M&M Variable Current Topics in Molecular Biology: PR: Graduate standing or C.I. Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit. <i>Occasional.</i></p>
<p>MCB 1310 BCBS-M&M 3(3,0) Introduction to Biotechnology and Genetic Engineering: Introduction to theories, laws, principles, foundations, scientific methods of genetic engineering & biotechnology and their applications in agriculture, environment and human health. <i>Fall, Spring.</i></p>	<p>MCB 4312 BCBS-M&M 3(3,0) Molecular Biotechnology: PR: MCB 3020C. Principles, techniques, and applications of Molecular Biotechnology in genetically modified food, cloning, gene therapy, and forensics; transgenic animals; patents and regulations. <i>Fall.</i></p>	<p>MGF 1106 COS-MATH 3(3,0) Finite Mathematics: PR: Intermediate algebra or 2 years of high school algebra or C.I. Introduction to logical structure, sets, probability, geometry, arrays, games. This course is intended for students who are not planning to take further courses in mathematics. <i>Fall, Spring.</i></p>
<p>MCB 2004C BCBS-M&M 4(3,2) Microbiology for Health Professionals: PR: BSC 2010C, CHM 1032 or CHM 2045C. A survey of microbiology for the health professional. <i>Spring.</i> M&S fee: \$45.00</p>	<p>MCB 4414 BCBS-M&M 3(3,0) Microbial Metabolism: PR: MCB 3020C, CR: BCH 4053. Interrelationship between cellular structure function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment. <i>Fall, Spring.</i></p>	<p>MGF 1107 COS-MATH 3(3,0) Explorations in Mathematics: PR: Intermediate algebra or 2 years of high school algebra. The beauty and utility of mathematics, including patterns and symmetry, voting strategies, and finance. Connections between math and music, art, architecture, and nature. For students not intending to take higher mathematics. <i>Fall, Spring.</i></p>
<p>MCB 3020C BCBS-M&M 5(3,4) General Microbiology: PR: BSC 2010C, CHM 2046, or CR: CHM 2210. Fundamentals of microbiology, evaluating microbial structure and function, metabolism, growth, genetics, virology environmental control, ecology, pathogenicity; and laboratory techniques. <i>Fall, Spring.</i> M&S fee: \$45.00</p>	<p>MCB 4503C BCBS-M&M 3(3,0) Virology: PR: PCB 3522. Concepts of structure and function of viruses, virus-host interactions and viral, and related disease states. <i>Occasional.</i></p>	<p>MHF 3302 COS-MATH 3(3,0) Logic and Proof in Mathematics: PR: MAC 2311. CR: MAC 2312. Basic mathematical logic. Methods of proof in mathematics. Application of proofs to elementary mathematical structures. <i>Fall, Spring.</i></p>
<p>MCB 3020H BCBS-M&M 5(3,5) General Microbiology Honors: PR: BSC 2010C, CHM 2046 or CR: CHM 2210, and consent of Honors. Same as MCB 3020C with enrichment and further development of analytical skills in a separate laboratory and discussion section. With Honors content. <i>Fall.</i></p>	<p>MCB 4603 BCBS-M&M 3(3,0) Environmental Microbiology: PR: MCB 3020C. Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environments. <i>Fall.</i></p>	<p>MHF 4404 COS-MATH 3(3,0) History of Mathematics: PR: MAC 2312 or C.I. A chronological study of the evolution of mathematical thought from primitive counting through modern ideas of the 20th century. Recommended for prospective teachers in mathematics. <i>Fall.</i></p>
<p>MCB 3203 BCBS-M&M 3(3,0) Pathogenic Microbiology: PR: MCB 3020C or C.I. Microorganisms producing disease in man and other animals; means of transmission; protection against disease. <i>Spring.</i></p>	<p>MCB 4721C BCBS-M&M 4(2,4) Methods in Biotechnology: PR: BSC 3403C. Fluorescence and luminescence-based assays used in biopharmaceutical industry for target validation. <i>Occasional.</i></p>	<p>MHS 2330 ED-CFCS 3(3,0) Career Planning: Introduction to career and life planning theories and concepts that assists students in applying these to their own lives. <i>Odd Fall, Even Spring.</i></p>
<p>MCB 3203L BCBS-M&M 1(0,3) Pathogenic Microbiology: CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms. <i>Spring.</i> M&S fee: \$45.00</p>	<p>MCB 5205 BCBS-M&M 3(3,0) Infectious Processes: PR: MCB 3020C or C.I. Discussion of current theories of the infectious process and the response of host cells and tissue to infection. <i>Fall.</i></p>	<p>MHS 2441 ED-CFCS 3(3,0) Marriage and Intimate Relationships: Examination of the dynamics of intimate relationships, dating, courtship and challenges of establishing stable and satisfying marriage, impact of divorce, premarital preparation and marital education. <i>Occasional.</i></p>

UCF Courses and Descriptions

MHS 5005	ED-CFCS	3(3,0)	MLS 4630	BCBS-M&M	3(3,0)	MMC 4300	COS-COMM	3(3,0)
Introduction to the Counseling Profession: PR: 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. <i>Fall, Spring.</i>			Advanced Clinical Chemistry II: PR: CHM 2210, PCB 3703C or C.I. Correlation of laboratory tests to specific human disease states. <i>Spring.</i>			International Media: PR: Junior standing or C.I. The student will analyze different communication systems from around the world. There will be at least six case studies from any of these areas - Asia, Latin American, Western Europe, Middle East, Africa. <i>Occasional.</i>		
MLS 3220C	BCBS-M&M	3(3,3)	MLS 4630L	BCBS-M&M	1(0,3)	MMC 4411	COS-COMM	3(3,0)
Techniques in Clinical Microscopy: PR: CHM 2210, PCB 3703C or C.I. Analysis of body fluids and urine by chemical and microscopic methods with interpretation and correlation to human disease. <i>Fall.</i> M&S fee: \$25.00			Advanced Clinical Chem II Lab: PR: CHM 2205 or C.I. CR: MLS 4630. Performance of laboratory procedures routinely used in a clinical chemistry laboratory. <i>Occasional.</i>			Ad/Pr campaigns: PR: AD/PR majors only and ADV 3008, PUR 4000 and either PUR 3100 or ADV 4101. Planning and managing communication Campaigns that integrate both advertising and public relations strategies. <i>Even Fall, Odd Spring.</i>		
MLS 3305	BCBS-M&M	3(3,0)	MLS 4830C	BCBS-M&M	4(4,8)	MMC 4602	COS-COMM	3(3,0)
Hematology: PR: CHM 2210 and PCB 3703C. Overview of the hematopoietic system and disease states associated with blood and bone marrow. <i>Spring.</i>			Interpretive & Practical Clinical Chemistry: PR: Admission to the MLS program, MLS 4625, MLS 4630. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on practice both in the student lab and affiliate. <i>Fall.</i> M&S fee: \$15.00			Contemporary Media Issues: PR: A minimum grade of "C" (2.0) in JOU 2100C. Relationship between the mass media and society; examination of social and ethical issues and responsibilities of the media's relationship with government. <i>Even Spring.</i>		
MLS 3305L	BCBS-M&M	1(0,6)	MLS 4831C	BCBS-M&M	4(4,8)	MSL 1001C	ECS-AROTC	2(1,1)
Hematology Lab: PR: MLS 3305. Practical laboratory procedures routinely performed for analyzing hematologic abnormalities. <i>Spring.</i>			Interpretive & Practical Immunohematology: PR: Admission to the MLS program, MLS 4550, MLS 4505C. Advanced study of principles of immunohematology. Application and performance of technique to solve problems in blood banking will be included. <i>Fall.</i> M&S fee: \$15.00			Foundations of Officership: Examines the unique duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyze Army values and expected behavior. May be repeated for credit. <i>Fall.</i>		
MLS 3705	BCBS-M&M	3(3,0)	MLS 4832C	BCBS-M&M	4(4,8)	MSL 1002C	ECS-AROTC	2(1,1)
Concepts in Education/Management: PR: Admission to professional phase of the MLS Program or C.I. Introduction to laboratory management, health delivery systems, and educational practices in clinical settings. <i>Spring.</i>			Interpretive & Practical Hematology: PR: Admission to the the MLS program, MLS 3305, MLS 4334. Advanced study of hematology and pathophysiological correlation to hematology disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates. <i>Fall.</i> M&S fee: \$15.00			Basic Leadership: Presents fundamental leadership concepts and doctrine; practice basic skills that underlie effective problem solving; examine the officer experience. <i>Spring.</i>		
MLS 4334	BCBS-M&M	3(3,0)	MLS 4833C	BCBS-M&M	4(4,8)	MSL 2101C	ECS-AROTC	2(1,1)
Hemostasis: PR: CHM 2210 and PCB 3703C. Overview of hemostatic and fibrinolytic conditions at the time of disease and the relationship of lab tests to diagnosis. <i>Occasional.</i>			Diagnostic Microbiology: PR: Admission to the MLS program, MLS 4460C. Practical application of modern bacteriological procedures with clinical specimens to include mycology & virology and appropriate quality control. Clinical practice in both student lab and affiliate. <i>Fall.</i> M&S fee: \$15.00			Individual Leadership Studies: Develops knowledge of self, self-confidence, and leadership skills; develop problem solving and critical thinking skills; apply communication, feedback, and conflict resolution skills. <i>Fall.</i>		
MLS 4420C	BCBS-M&M	1(1,2)	MLS 4834C	BCBS-M&M	4(4,8)	MSL 2102C	ECS-AROTC	2(1,1)
Clinical Mycology: PR: Admission to the professional phase of the MLS program with C.I. Instruction and laboratory practice in the isolation and identification of fungi associated with mycotic infections of man. <i>Occasional.</i> M&S fee: \$15.00			Advanced Instrumentation: PR: Admission to the MLS program, MLS 4833C. An examination review & practice of technologies impacting the clinical laboratory to include flow cytometry, PCR, LIS, robotics. Case studies will be a fundamental part of this course. <i>Occasional.</i>			Leadership and Teamwork: Focuses on self-development guided by knowledge of self and group processes; challenges current beliefs, knowledge and skills. <i>Spring.</i>		
MLS 4430C	BCBS-M&M	2(1,3)	MLS 4910	BCBS-M&M	1(1,0)	MSL 3201C	ECS-AROTC	4(3,1)
Clinical Parasitology: PR: MCB 3020C, CHM 2210, PCB 3703C or C.I. Instruction and laboratory practice in the examination and study of clinical material for the detection and identification of animal parasites. <i>Even Fall.</i> M&S fee: \$15.00			Introduction to Clinical Research: PR: MLS 3220C, MLS 4625, MLS 4550. Introduces MLS students to different types of research within the clinical setting. <i>Spring.</i>			Leadership and Problem Solving: PR: Junior standing. Examines skills that underlie effective problem solving; analyzes military missions and plan military operations; and executes squad battle drills. <i>Fall.</i>		
MLS 4460C	BCBS-M&M	5(3,6)	MLS 4933	BCBS-M&M	2(2,0)	MSL 3202C	ECS-AROTC	4(3,1)
Clinical Pathogenic Microbiology: PR: Admission to the professional phase of the MLS program. Analysis of clinical pathogenic bacteria, fungi and viruses and their correlation to disease. <i>Spring.</i> M&S fee: \$45.00			Medical Technology Seminar: PR: MLS Senior status. Review of MLS coursework, case study discussions and preparation for certification. Graded S/U. <i>Spring.</i>			Leadership and Ethics: PR: MSL 3201C. Probes leadership responsibilities that foster an ethical command climate; develops cadet leadership competencies; applies principles and techniques of effective written and oral communication. <i>Spring.</i>		
MLS 4505C	BCBS-M&M	3(3,0)	MMC 2004	COS-COMM	3(3,0)	MSL 4301C	ECS-AROTC	4(3,1)
Immunodiagnosics: PR: PCB 3233. Theory and application of immunologic principles and their use in diagnosis of human disease. <i>Spring.</i> M&S fee: \$15.00			Mass Media: Introduction to the nation's mass media, including newspapers, radio, television, magazines, advertising, and public relations. <i>Fall, Spring.</i>			Leadership and Management: PR: MSL 3202C. Discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, apply leadership and problem solving principles to a complex case study/simulation. <i>Fall.</i>		
MLS 4550	BCBS-M&M	4(2,6)	MMC 3200	COS-COMM	3(3,0)	MSL 4302C	ECS-AROTC	4(3,1)
Clinical Immunohematology: PR: Admission to the professional phase of the MLS program or C.I. Investigation of incompatible crossmatches; antibody identification, leukocyte antigens and identification procedures, problem solving. <i>Spring.</i> M&S fee: \$15.00			Mass Communication Law: PR: AMH 2010 or AMH 2020 or POS 2041. Legal rights and responsibilities of the mass media. <i>Fall, Spring.</i>			Officership: PR: MSL 4301C. Capstone course to explore topics relevant to second lieutenants entering the Army; describes legal aspects of decision making and leadership; and analyzes Army organization from tactical to strategic level. <i>Spring.</i>		
MLS 4625	BCBS-M&M	3(3,0)	MMC 3420	COS-COMM	3(3,0)	MTG 4212	COS-MATH	4(4,0)
Advanced Clinical Chemistry I: PR: CHM 2210, PCB 3703C or C.I. Correlation of lab test to specific disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electrolytes, and blood gases. <i>Fall.</i>			Mass Media Research Methods: PR: Communication major. Theory and methods of research used by media professionals and academics, focusing on radio / TV and advertising / public relations research. <i>Fall, Spring.</i>			Modern Geometrics: PR: MAC 2311 or C.I. Sets of axioms and finite geometries, groups of transformations, Euclidean motions of 2-space and 3-space, convexity in 2-space and 3-space. Euclidean geometry of polygon and circle, constructible numbers, constructions and non-Euclidean geometry. <i>Fall.</i>		
MLS 4625L	BCBS-M&M	1(0,3)	MMC 4263	COS-COMM	3(3,0)			
Advanced Clinical Chem I Lab: CR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory. <i>Fall.</i>			New Media Technologies: PR: Majors only, RTV 3200. An examination of the technologies impacting the communications media environment and society. <i>Occasional.</i>					

MTG 4302 COS-MATH 3(3,0)
Introduction to Topology: PR: MHF 3302 and MAS 3106 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness. *Spring.*

MTG 5256 COS-MATH 3(3,0)
Differential Geometry: PR: 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.*

MUC 1101C CAH-MUSIC 2(1,1)
Composition I: PR: Open to qualified majors and non-music majors with C.I. Creative work in small forms. May be repeated for credit. *Fall, Spring.*

MUC 2104C CAH-MUSIC 2(1,1)
Composition II: PR: MUC 1101C and Music or composition major. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit. *Fall, Spring.*

MUC 3105C CAH-MUSIC 3(1,1)
Composition III: PR: MUC 2104C and competence determined by faculty jury. Continued study of composition, with additional intensive work expected for composition majors. May be used in the degree program a maximum of 3 times. *Fall, Spring.*

MUC 3311 CAH-MUSIC 3(2,2)
MIDI Sequencing I: PR: Keyboard ability and reading music or C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing software to create music. *Fall, Spring.* M&S fee: \$15.83

MUC 4106C CAH-MUSIC 4(1,1)
Composition IV: PR: MUC 3105C and competence determined by faculty jury. Intensive advanced study of composition for composition majors. May be used in the degree program a maximum of 3 times. *Fall, Spring.*

MUC 4313 CAH-MUSIC 3(3,0)
MIDI Sequencing III: PR: MUC 4441, Junior standing or C.I. Technical aspects of MIDI usage, including MIDI specification, sysEx, and MIDI machine control. *Occasional.*

MUC 4441 CAH-MUSIC 3(3,0)
MIDI Sequencing II: PR: MUC 3311, Junior standing, and C.I. Continuation of sequencing, sampling, and inactive digital music technology. *Spring.* M&S fee: \$15.83

MUC 4611C CAH-MUSIC 3(2,1)
Computer Animation and Digital Music: PR: MUC 4441 or FIL 3286C and C.I. Music students and computer animation students work collaboratively to produce animation projects with original musical scores and sound effects. *Occasional.*

MUC 4612C CAH-MUSIC 3(2,2)
Film/Video Composition: PR: MUC 1101C, MUC 2104C, MUC 3311, MUC 4441. Music composition for film, video, computer games. *Occasional.*

MUC 4950 CAH-MUSIC 0(0,0)
Composition Recital: CR: MUC 4106C. Culminating public concert of works written while studying Composition I-IV. Graded S/U. *Odd Fall.*

MUC 5112 CAH-MUSIC 2(1,0)
Composition V: PR: 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. *Occasional.*

MUE 1291 CAH-MUSIC 1(0,1)
Classroom Instruments: Instruction in recorder and guitar, as it applies to classroom usage for music educators. *Odd Fall.*

MUE 2040 CAH-MUSIC 2(2,0)
Introduction to Music Education: PR: None. An introduction to music education covering philosophy, history, and current practice and trends. Observation in schools required. *Fall.*

MUE 2211 ED-CFCS 3(3,0)
Early Childhood Music and Movement: An examination of the role of music and creative movement in the lives of young children. *Occasional.*

MUE 2346 CAH-MUSIC 1(0,2)
Vocal Techniques: PR: Music major or C.I. Vocal function, anatomy, and pedagogical methodology with applications for K-12 teaching. *Odd Spring.*

MUE 2440 CAH-MUSIC 1(0,2)
String Techniques: PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical techniques. *Spring.* M&S fee: \$30.00

MUE 2450 CAH-MUSIC 1(1,0)
Woodwind Techniques I: PR: MUED major, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques. *Fall.*

MUE 2460 CAH-MUSIC 1(0,2)
Brass Techniques: PR: MUED major, junior standing or C.I. Class instruction in brass playing and pedagogical techniques. May be repeated for credit. *Fall.*

MUE 2470 CAH-MUSIC 1(0,2)
Percussion Techniques: PR: MUED major, junior standing or C.I. Class instruction in percussion playing and pedagogical techniques. May be repeated for credit. *Spring.* M&S fee: \$35.00

MUE 2471 CAH-MUSIC 1(1,1)
Percussion Techniques II: PR: MUE 2470 or C.I. Additional performing and teaching techniques of the percussion family, as relevant to today's instrumental music teachers. *Odd Spring.*

MUE 3210 ED-TLP 1(1,0)
Music in the Elementary School: PR: EDF 2005; CR: ARE 4313, HLP 4722, RED 4519, MAE 4326, and EDE 3942. Fundamental procedures for teaching elementary school music, stressing appropriate music materials and activities for different age groups: selected experience in music. *Fall, Spring.*

MUE 3333 CAH-MUSIC 3(3,0)
Music Learning Theory and Assessment: PR: MUE 2040. Learning theory and practical applications of assessment techniques as applied in the music classroom. *Odd Spring.*

MUE 3353 CAH-MUSIC 2(2,0)
General Music Literature and Techniques: PR: MUE 2040. Diverse literature and techniques for the general music classroom. *Odd Spring.*

MUE 3451 CAH-MUSIC 1(1,0)
Woodwind Techniques II: PR: MUE 2450, MUED major, Junior standing or C.I. Continuation of Woodwind Techniques I, with emphasis on double reeds. *Occasional.*

MUE 3461 CAH-MUSIC 1(1,1)
Brass Techniques II: PR: MUE 2460. Continued study of performance techniques, teaching skills, resources, and materials required to teach brass instruments to beginning, middle, and high school level students. *Odd Spring.*

MUE 3490 CAH-MUSIC 1(1,0)
Aural Skills Techniques: PR: MUT 2127. Teaching techniques for teaching audition, sight singing, harmony, beginning vocal harmonization and improvisation. *Odd Spring.*

MUE 3693 CAH-MUSIC 2(2,0)
Technology in Music Education: PR: MUE 2040 or C.I. Productivity software, classroom management tools, web design and other technological tools for classroom teaching. *Odd Spring.*

MUE 4311 ED-TLP 2(2,0)
Elementary School Music Methods: PR: Junior standing, MUED major. Organization and administration of instruction for comprehensive music education, K-6: instructional planning, techniques, and materials for elementary music education. *Fall.*

MUE 4330 ED-TLP 2(2,0)
Secondary School Music Methods: PR: MUE 4311 or C.I. Instructional planning, techniques and materials in middle school, junior high and senior high classrooms; consideration of general music education program, evaluation materials and procedures. *Spring.*

MUE 4331 CAH-MUSIC 3(3,0)
Secondary Choral Methods I: PR: MUE 2040 or C.I. Examination of vocal and choral literature, planning skills and rehearsal techniques for choral groups. *Odd Spring.*

MUE 4332 CAH-MUSIC 3(3,0)
Secondary Instrumental Methods I: PR: MUE 2040. Wind, percussion, and string teaching methods for beginning and middle level students in a large classroom setting. *Odd Spring.*

MUE 4335 CAH-MUSIC 3(3,0)
Secondary Choral Methods II: PR: MUE 4331. Continued examination of vocal and choral literature, planning skills and rehearsal techniques for choral groups. *Odd Spring.*

MUE 4337 CAH-MUSIC 3(3,0)
Secondary Instrumental Methods II: PR: MUE 4332. Wind and percussion teaching methods for high school students in a large classroom setting. *Odd Spring.*

MUE 4350 ED-TLP 2-3(2-3,0)
General Music Pre-K through Grade 8: PR: Consent of instructor. Designed for music educators. Exploration of music materials and teaching strategies for enhancing students' learning through music. Experience with recorder, movement, choral, conducting, and curriculum infusion included. Implementation project available. May be repeated for credit. Graded S/U. *Occasional.*

MUE 4354 ED-TLP 3(3,0)
General Music: ORFF Level I: PR: Junior Standing or C.I. ORFF SCHULWERK methods of music education for pre-K - grade 8. Development of personal and pedagogical skills in singing, moving, playing Orff instruments, recorder and compositions. *Occasional.*

MUE 4393 CAH-MUSIC 2(2,0)
Music and Students with Special Needs: PR: MUE 2040 or C.I. Consideration of the general education music curriculum in regards to students with disabilities and special needs. *Odd Fall.*

MUE 4394 CAH-MUSIC 1(1,0)
Seminar in Music Teaching: PR: Internship I; CR: ESE 4943. Content and strategies for classroom management and exceptional education for music teachers. *Odd Spring.*

MUE 4441 CAH-MUSIC 3(3,0)
String Methods: PR: MUE 4332. String teaching methods for high school students in a large classroom setting. *Odd Spring.*

MUE 4480C CAH-MUSIC 1(1,1)
Marching Band Techniques: PR: MUT 1112 and C.I. Principles of organizing and training marching bands: Planning, charting football shows, rehearsal problems. Guided observations. May be repeated for credit. *Fall.*

UCF Courses and Descriptions

MUE 4481	CAH-MUSIC	1(1,0)	MUH 4322	CAH-MUSIC	3(3,0)	MUL 2720	CAH-MUSIC	3(3,0)
Jazz Pedagogy: PR: Music major, MUT 1112 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level. <i>Occasional.</i>			Medieval and Renaissance Music: PR: MUH 3211 and MUH 3212 or C.I. Music and culture of Western Europe in the era c. 450-1600. <i>Even Fall.</i>			Music of the World: Music in cross-cultural context. Relation of music to religion and society. <i>Fall, Spring.</i>		
MUE 4963	CAH-MUSIC	0(1,0)	MUH 4351	CAH-MUSIC	3(3,0)	MUL 3381	CAH-MUSIC	3(3,0)
Music Education Pre-Professional Interview: PR: Internship I. Demonstration of comprehensive music education skills and knowledge. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Occasional.</i>			Eighteenth-Century Music: PR: MUH 3211 and MUH 3212 or C.I. Music and culture of Western Europe in the era c. 1700-1830. <i>Even Fall.</i>			Contemporary Popular Music: PR: MUL 2010 or MUT 1112 or C.I. History and analysis of selected genres in recent popular music. Music reading not required. <i>Spring.</i>		
MUE 5348C	ED-TLP	4(4,0)	MUH 4361	CAH-MUSIC	3(3,0)	MUL 3400	CAH-MUSIC	2(1,1)
K-12 Music Methods: PR: 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. <i>Spring.</i>			Music of the 19th Century: PR: MUH 3211 and MUH 3212 with grades of "C," 2.0, or higher in each. Examination of Western European and American art music from the nineteenth century. <i>Odd Fall.</i>			Piano Literature I: PR: Major in Music or C.I. Survey of stringed keyboard literature from the 16th century to the present, with emphasis on technical, formal and performance problems. <i>Odd Fall.</i>		
MUG 3104	CAH-MUSIC	2(1,1)	MUH 4371	CAH-MUSIC	3(3,0)	MUL 3401	CAH-MUSIC	2(1,1)
Basic Conducting: Fundamental techniques and practice in conducting. <i>Fall.</i>			Music Since 1900: PR: MUH 3211, MUH 3212, or C.I. Western art music since 1900. <i>Odd Spring.</i>			Piano Literature II: PR: MUL 3400. Continuation of MUL 3400. <i>Even Spring.</i>		
MUG 3202	CAH-MUSIC	Variable	MUH 4814	CAH-MUSIC	3(3,0)	MUL 3432	CAH-MUSIC	2(2,0)
Choral Conducting and Materials: PR: MUG 3104. Fundamental principles of choral conducting and rehearsal techniques including an examination of materials. <i>Even Spring.</i>			Jazz Styles and Analysis: PR: MUT 3171 and MUL 2016, or C.I. Historical style periods and master artists in jazz music. <i>Odd Spring.</i>			String Literature: PR: Music major and C.I. Survey of string solo/chamber music literature from the 16th century to the present. <i>Odd Fall.</i>		
MUG 3302	CAH-MUSIC	Variable	MUH 4963	CAH-MUSIC	0(1,0)	MUL 3441	CAH-MUSIC	2(2,0)
Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials. <i>Spring.</i>			Music History Proficiency Exam: PR: MUH 3212. A comprehensive examination in music history. Required of music majors. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Occasional.</i>			Woodwind Literature: PR: Junior standing, C.I., Music major. Survey of woodwind literature from the 16th century to the present. <i>Even Fall.</i>		
MUG 4103C	CAH-MUSIC	2(1,1)	MUH 5326	CAH-MUSIC	3(3,0)	MUL 3442	CAH-MUSIC	2(2,0)
Advanced Conducting: PR: C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal procedures, selection of materials and program-building, interpretation of scores, study and performance of selected works. May be repeated for credit. <i>Occasional.</i>			Medieval and Renaissance Music: PR: Graduate standing in music education or C.I. Music and culture of Western Europe in the era c. 450-1600. <i>Occasional.</i>			Brass Literature: PR: Music major (Brass), Junior standing, C.I. Survey of brass solo/ensemble literature from 16th century to present. <i>Even Fall.</i>		
MUH 2017	CAH-MUSIC	3(3,0)	MUH 5345	CAH-MUSIC	3(3,0)	MUL 3463	CAH-MUSIC	2(2,0)
Survey of Rock Music: Rise of rock music to prominence, and its impact on audience reception. No musical background required. <i>Fall, Spring.</i>			Music of the Baroque: PR: 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. <i>Even Spring.</i>			Percussion Literature: PR: Music major (Percussion), Junior standing, C.I. Survey of music written for percussion instruments. <i>Odd Fall.</i>		
MUH 2019	CAH-MUSIC	3(3,0)	MUH 5356	CAH-MUSIC	3(3,0)	MUL 3602	CAH-MUSIC	3(3,0)
American Popular Music, 1840s-present: Musical and cultural development of popular music in the United States from the 1840s to the present. <i>Fall, Spring.</i>			Eighteenth-Century Music: PR: Graduate standing in music education or C.I. Music and culture of Western Europe in the era c. 1700-1800. <i>Occasional.</i>			Song Literature: PR: MUL 2014 or C.I. Classical song repertoire in English and common foreign languages, and proven methods of effective song study. <i>Odd Fall.</i>		
MUH 2071C	CAH-MUSIC	1(0,1)	MUH 5365	CAH-MUSIC	3(3,0)	MUL 3603	CAH-MUSIC	1(1,1)
World Music Survey and Performance Laboratory: PR: MUT 1112 or C.I. An introduction to different musical cultures including West African, Caribbean, South American, and Asian. <i>Occasional.</i>			Music of the 19th Century: PR: Graduate standing in Music or C.I. Western Art Music of the 19th Century. <i>Odd Fall.</i>			American/English Song Literature: PR: C.I. Survey of songs written by American or English composers. <i>Even Spring.</i>		
MUH 3211	CAH-MUSIC	3(3,0)	MUH 5375	CAH-MUSIC	3(3,0)	MUL 3604	CAH-MUSIC	1(1,1)
Music History and Literature I: PR: MUT 1122. History of Western European art music from Antiquity to 1750. <i>Fall.</i>			Music since 1900: PR: Graduate standing in music education or C.I. Music and culture of Western and American art Music from c. 1900 to the present. <i>Occasional.</i>			German Song Literature: PR: Music major or C.I. Survey of German song literature. <i>Odd Spring.</i>		
MUH 3212	CAH-MUSIC	3(3,0)	MUH 5816	CAH-MUSIC	3(3,0)	MUL 3605	CAH-MUSIC	1(1,1)
Music History and Literature II: PR: MUT 1122. History of Western European and American art music from 1750 to present day. <i>Spring.</i>			Jazz Styles and Analysis: PR: Graduate standing or C.I. Advanced study of historical style periods and master artists in jazz music. <i>Odd Fall.</i>			French Song Literature: PR: Music major or C.I. Survey of French song literature. <i>Odd Fall.</i>		
MUH 3622	CAH-MUSIC	3(3,0)	MUL 2010	CAH-MUSIC	3(2,1)	MUL 4437	CAH-MUSIC	3(3,0)
Music and Ritual in East Asian Religions: PR: ENC 1102 and one of the following: REL 2300, HUM 2210, HUM 2230, MUL 2720, ANT 2000, ANT 2410, WOH 2012, WOH 2022. The aural and kinetic elements of religious ceremony, focusing on the interplay of music and ritual in Buddhism, Daoism, Confucianism, Shamanism. <i>Occasional.</i>			Enjoyment of Music: PR: Non-music majors only. Designed to develop an understanding of musical principles and techniques for listening to music. <i>Fall, Spring.</i>			String Literature and Pedagogy: PR: MUL 2014. Important literature written for string instruments, and basic concepts and techniques to teach string. <i>Odd Spring.</i>		
MUH 4218	CAH-MUSIC	1(1,0)	MUL 2014	CAH-MUSIC	3(3,0)	MUL 4443	CAH-MUSIC	3(3,0)
Review of Music History: PR: C.I. A review of music history from Ancient Greece to the present. <i>Occasional.</i>			Introduction to Music History and Literature: PR: Music major or C.I. Musical repertoires and cultures from the Western art music tradition, American jazz, and non-western music. <i>Odd Spring.</i>			Brass Literature and Pedagogy: PR: MUL 2014. Important literature written for brass instruments, and basic concepts and techniques to teach brass. <i>Odd Spring.</i>		
			MUL 2016	CAH-MUSIC	3(3,0)	MUL 4444	CAH-MUSIC	3(3,0)
			Evolution of Jazz: Survey of jazz literature and performance. <i>Fall, Spring.</i>			Woodwind Literature and Pedagogy: PR: Music major and MUL 2014. Important literature written for woodwind instruments, and basic concepts and techniques to teach woodwinds. <i>Odd Spring.</i>		
						MUM 5806	CAH-MUSIC	3(3,0)
						Performing Arts Management: PR: Graduate status or senior standing or C.I. Structure of nonprofit performing arts organization (PAOs), examining the fundamental elements of administration, audience development, marketing, and fund-raising. <i>Spring.</i>		

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MUN 2023	CAH-MUSIC	1(0,2)	Synthesizer Ensemble: PR: C.I. and keyboard ability. Rehearsal and performance of music for synthesizers. May be repeated for credit. <i>Occasional.</i>
MUN 2442	CAH-MUSIC	1(1,0)	Percussion/Mallet Ensemble: PR: C.I. Preparation and performance of music for percussion with mallets. May be repeated for credit. <i>Fall.</i>
MUN 3113	CAH-MUSIC	2(0,8)	Marching Band: PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit. <i>Fall.</i> M&S fee: \$36.54
MUN 3123	CAH-MUSIC	1(0,3)	Concert Band: PR: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3143	CAH-MUSIC	1(0,4)	Wind Ensemble: PR: Open to all students by audition. Study and performance of music for wind ensemble and band. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3283	CAH-MUSIC	1(0,5)	Symphony Orchestra: PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3313	CAH-MUSIC	1(3,0)	University Choir: PR: C.I. Open to all students by audition. Study and performance of large ensemble music. Possible tours. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3323	CAH-MUSIC	1(0,3)	Women's Chorus: PR: Audition and C.I. Study and performance of music for women's voices. Open to all students. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3343	CAH-MUSIC	1(0,3)	Madrigal Singers: PR: C.I. Open to all students by audition. Extra rehearsals and Madrigal Dinners required. Tours. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3423	CAH-MUSIC	1(0,2)	Woodwind Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3430	CAH-MUSIC	1(1,0)	Trumpet Ensemble: PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit. <i>Occasional.</i> M&S fee: \$5.00
MUN 3433	CAH-MUSIC	1(0,2)	Brass Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3443	CAH-MUSIC	1(0,2)	Percussion Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00
MUN 3444	CAH-MUSIC	1(1,0)	Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit. <i>Fall, Odd Spring.</i> M&S fee: \$35.00
MUN 3453	CAH-MUSIC	1(0,3)	Piano Ensemble: PR: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring.</i>
MUN 3483	CAH-MUSIC	1(0,2)	String Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3487	CAH-MUSIC	1(0,2)	Guitar Ensemble: PR: Audition or C.I. Study and performance of music for multiple guitars. <i>Odd Spring.</i>
MUN 3713	CAH-MUSIC	1(0,4)	Jazz Lab: PR: C.I. Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00
MUN 3714	CAH-MUSIC	1(0,2)	Jazz Combo: PR: Junior standing and C.I. Rehearsal and performance of music for small jazz combo, emphasizing improvisation. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$5.00
MUN 3717	CAH-MUSIC	1(0,3)	Jazz/Pop Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Occasional.</i>
MUN 3723	CAH-MUSIC	1(0,3)	Vocal-Jazz Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. <i>Occasional.</i>
MUN 3813	CAH-MUSIC	1(1,1)	Steel Drum Ensemble: PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$5.00
MUN 4476	CAH-MUSIC	1(0,2)	Early Music Ensemble: PR: C.I. Study and performance of pre-classical music. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$5.00
MUN 5125	CAH-MUSIC	1(0,3)	Concert Band: PR: 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. <i>Odd Fall.</i> M&S fee: \$20.00
MUN 5145	CAH-MUSIC	1(0,4)	Wind Ensemble: PR: 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. <i>Odd Fall.</i> M&S fee: \$20.00
MUN 5215	CAH-MUSIC	1(0,5)	Symphony Orchestra: PR: 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. <i>Odd Fall.</i> M&S fee: \$20.00
MUN 5325	CAH-MUSIC	1(0,3)	Women's Chorus: PR: 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. <i>Odd Fall.</i> M&S fee: \$20.00
MUN 5368L	CAH-MUSIC	1(0,3)	Graduate Madrigal Singers: PR: Graduate standing in Music education and C.I. Study of varied literature for small vocal ensembles. May be used in the degree program a maximum of 5 times. <i>Occasional.</i> M&S fee: \$5.00
MUN 5385L	CAH-MUSIC	1(0,3)	Graduate University Chorus: PR: 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. <i>Occasional.</i> M&S fee: \$5.00
MUN 5445	CAH-MUSIC	1(0,2)	Percussion Ensemble: PR: 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. <i>Odd Fall.</i> M&S fee: \$35.00
MUN 5465L	CAH-MUSIC	1(0,2)	Graduate Chamber Music: PR: 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. <i>Occasional.</i> M&S fee: \$5.00
MUN 5478L	CAH-MUSIC	1(0,3)	Early Music Ensemble: PR: 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. <i>Occasional.</i> M&S fee: \$5.00
MUO 2501C	CAH-MUSIC	2(1,1)	Opera Skills: PR: Open to all students by audition. Integration of singing, acting, and movement in opera; explores basic stage movement, character preparation, and performance of opera arias. <i>Fall.</i>
MUO 3503	CAH-MUSIC	1(0,3)	Opera Workshop: PR: MUO 2501C, or C.I., and audition. Study, preparation, and performance of opera literature. May be used in the degree program a maximum of 8 times. <i>Occasional.</i> M&S fee: \$20.00
MUO 5505L	CAH-MUSIC	1(0,3)	Graduate Opera Workshop: PR: 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. <i>Occasional.</i>
MUS 1010	CAH-MUSIC	0(9,2)	Music Forum: A series of special musical events required of music majors. Includes lectures and recitals by faculty, students, and guest artists. Graded S/U. May be repeated for credit. <i>Fall, Spring.</i>
MUS 1201	CAH-MUSIC	1(1,0)	European Diction: A survey of French, German and Italian diction for music educators. <i>Even Fall.</i>
MUS 1250	CAH-MUSIC	1(2,0)	IPA for Singers: PR: Music major or C.I. The International Phonetic Alphabet and its application to English, French, German, and Italian music written for voice. <i>Odd Fall.</i>
MUS 1952C	CAH-MUSIC	3(3,0)	Study Abroad: Irish Music: PR: C.I. The history, genres, forms, instruments, and performance of Irish music taught in the native environment. Graded S/U. <i>Occasional.</i>
MUS 2360C	CAH-MUSIC	3(2,2)	Introduction to Music Technology: PR: Music or Digital Media major or C.I. Utilization of computers and keyboards to acquire skills in MIDI sequencing, notation, CDs, and the Internet. <i>Fall, Spring.</i> M&S fee: \$15.83
MUS 3254	CAH-MUSIC	2(2,0)	Italian and French Lyric Diction: PR: MUS 1250. Study and applications of the correct sung pronunciation of the Italian and French languages. <i>Odd Spring.</i>
MUS 3255	CAH-MUSIC	2(2,0)	German and English Lyric Diction: PR: MUS 1250. Study and applications of the correct sung pronunciation of the German and English languages. <i>Odd Spring.</i>
MUS 3953	CAH-MUSIC	0(1,0)	Recital Performance I: PR: Junior Level Applied Music and C. I. Public recital of 30 minutes to demonstrate performance skills. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Fall, Spring.</i>

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MUS 4293	CAH-MUSIC	1(1,0)	MUT 1004	CAH-MUSIC	3(3,0)	MUT 2961	CAH-MUSIC	0(1,0)
Music Theatre Ensemble: PR: Junior standing and C.I. Rehearse, study, and preparation of musical theatre score for pit orchestra and off-stage singers, culminating in public performance with University Theatre. May be repeated for credit. <i>Occasional.</i>			Fundamentals of Music I: Basic music theory and reading music at the keyboard. <i>Fall.</i>			Sight-Singing Proficiency Exam: PR: MUT 2247. Basic skills in sight-singing. Required of Music majors. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Occasional.</i>		
MUS 4320	CAH-MUSIC	3(3,0)	MUT 1111	CAH-MUSIC	2(2,1)	MUT 2962	CAH-MUSIC	0(1,0)
Music Business and Industry: PR: MUS 2360C or C.I. Today's music industry copyright, publishing, contracts and licensing. <i>Odd Spring.</i>			Music Theory IA: CR: MUT 1241. Writing, performance, analysis of and music of various stylistic periods. <i>Fall, Spring.</i>			Music Theory Proficiency Exam: PR: MUT 2117. Demonstration of basic skills in part-writing, visual analysis, counterpoint, instrumentation and form. Required for Music majors. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Occasional.</i>		
MUS 4330	CAH-MUSIC	2(1,1)	MUT 1112	CAH-MUSIC	2(2,1)	MUT 3170	CAH-MUSIC	3(3,0)
Recording Techniques for Classical Music: PR: MUL 2010 or C.I. Concert hall recording techniques for classical music. <i>Occasional.</i>			Music Theory IB: PR: MUT 1111, CR: MUT 1242. Continuation of MUT 1111. <i>Spring.</i>			Jazz Theory I: PR: MUT 1122 or C.I. Study of theoretical concepts in jazz music, including practical keyboard applications. <i>Even Fall.</i>		
MUS 4377C	CAH-MUSIC	3(2,2)	MUT 1121	CAH-MUSIC	4(2,3)	MUT 3171	CAH-MUSIC	3(3,0)
Digital Notation: PR: MUC 3311. Work on projects utilizing computer notational software applications. <i>Spring.</i> M&S fee: \$15.83			Music Theory and Musicianship I: PR: MUT 1004 or C.I. Studies in music theory, both written and aural skills, including musical analysis, model composition, sight singing, ear training, and improvisation. <i>Odd Spring.</i>			Jazz Theory II: PR: MUT 3170. Advanced study of theoretical concepts in jazz music, including practical keyboard applications. <i>Odd Spring.</i>		
MUS 4401	CAH-MUSIC	2(1,1)	MUT 1122	CAH-MUSIC	4(2,3)	MUT 3401	CAH-MUSIC	3(3,0)
Studio Teaching: PR: C.I. Management of the music studio; responsibilities and techniques of private instruction for the studio teacher, principles of psychology of music. May be repeated for credit. <i>Occasional.</i>			Music Theory and Musicianship II: PR: MUT 1121 or C.I. Continuation of MUT 1121. Studies in music theory, both written and aural skills, including musical analysis, model composition, sight singing, ear training, and improvisation. <i>Odd Spring.</i>			Counterpoint: PR: MUT 2117. Discuss, analyze, and write counterpoint exercises. 18th, 19th, and 20th scores will be examined. <i>Even Spring.</i>		
MUS 4543C	CAH-MUSIC	5(3,2)	MUT 1241	CAH-MUSIC	1(0,2)	MUT 3571	CAH-MUSIC	3(3,0)
Digital Music Project: PR: MUC 3311 and MUC 4441, or C.I. Individual work on media related audio projects with emphasis on artistic/technical skills. <i>Occasional.</i>			Ear Training and Sight Singing IA: Aural and visual/oral comprehension of elements of music - rhythm, melody, harmony, form. Intended to be taken with MUT 1111. <i>Fall, Spring.</i>			20th Century Musical Analysis: PR: MUT 2116 and MUT 2117 or equivalent. Overview of 20th century music, including musical compositions, techniques of musical analysis, and styles. <i>Fall.</i>		
MUS 4635C	CAH-MUSIC	3(2,2)	MUT 1242	CAH-MUSIC	1(0,2)	MUT 3622	CAH-MUSIC	3(3,0)
Sound Design: PR: MUC 3311, MUC 4441. Audio storage processing/compression for digital media. <i>Occasional.</i>			Ear Training and Sight Singing IB: PR: MUT 1241. Continuation of MUT 1241. Intended to be taken with MUT 1112. <i>Spring.</i>			Analytical Approaches to Musical Rhythm: PR: MUT 2117 or equivalent or C.I. Contemporary, cognitive, hyper-metric, and projective approaches to musical rhythm, rhythm in dance, performance, and non-Western music. <i>Occasional.</i>		
MUS 4645C	CAH-MUSIC	3(2,2)	MUT 2116	CAH-MUSIC	2(2,1)	MUT 3641	CAH-MUSIC	2(0,2)
Music Post Production Techniques: PR: MUC 3311, MUC 4441, MUC 4612C, MUS 4635C. Audio and video film post production process with the video recording format. Audio and multi-media technologies will be used in the synchronization of SMPTE time code. <i>Occasional.</i>			Music Theory IIA: PR: MUT 1112, CR: MUT 2246. Continuation of MUT 1111-1112: writing, performance, and analysis of music of various stylistic periods. <i>Fall.</i>			Jazz Improvisation I: PR: MUT 3171, Junior standing or C.I. Jazz improvisation with an emphasis on listening, harmony, arranging, and jazz forms. Melodic and harmonic dictation at the keyboard. <i>Odd Fall.</i>		
MUS 4900	CAH-MUSIC	3(3,0)	MUT 2117	CAH-MUSIC	2(2,1)	MUT 3642	CAH-MUSIC	2(0,2)
Music BA Capstone Project: PR: C.I. Self-designed project, completed under faculty supervision, that demonstrates ability to think critically and work independently while applying knowledge and skills from music and other subjects. Graded S/U. <i>Occasional.</i>			Music Theory IIB: PR: MUT 2116, CR: 2247. Continuation of MUT 2116. <i>Spring.</i>			Jazz Improvisation II: PR: MUT 3641 Junior standing or C.I. A continuation of Jazz Improvisation I. <i>Even Spring.</i>		
MUS 4905	CAH-MUSIC	1-4(1-4)	MUT 2126	CAH-MUSIC	4(2,3)	MUT 3923	CAH-MUSIC	3(0,3)
Directed Experience: PR: C.I. and Junior standing. Special topics of study and/or research as determined by student/faculty consultation. May be repeated for credit. <i>Occasional.</i>			Music Theory and Musicianship III: PR: MUT 1122 or C.I. Continuation of MUT 1122. Studies in music theory, both written and aural skills, including musical analysis, model composition, sight singing, ear training, and improvisation. <i>Odd Spring.</i>			Jazz Workshop: PR: MUT 3171 or C.I. Jazz improvisation, repertoire, composition and arranging studied in a chamber group context. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>		
MUS 4954	CAH-MUSIC	0(1,0)	MUT 2127	CAH-MUSIC	4(2,3)	MUT 4031	CAH-MUSIC	1(1,0)
Recital Performance II: PR: Senior level applied music and C.I. Public recital of 45 minutes to demonstrate performance skills. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Fall, Spring.</i>			Music Theory and Musicianship IV: PR: MUT 2126 or C.I. Continuation of MUT 2126. Studies in music theory, both written and aural skills, including musical analysis, model composition, sight singing, ear training, and improvisation. <i>Odd Spring.</i>			Review of Music Theory: PR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit. <i>Occasional.</i>		
MUS 5365	CAH-MUSIC	3(3,0)	MUT 2246	CAH-MUSIC	1(0,2)	MUT 4311	CAH-MUSIC	3(3,0)
Music and Technology: PR: Graduate status or senior standing, or C.I. The emergence of technology in music including MIDI, CD ROM, and the high-tech music classroom. <i>Occasional.</i>			Ear Training and Sight Singing IIA: PR: MUT 1242. Continuation of MUT 1242. Intended to be taken with MUT 2116. <i>Fall.</i>			Orchestration: PR: MUS 2360C and MUT 2127. Technical and aesthetic principles of writing for instruments of the concert orchestra. <i>Odd Spring.</i>		
MUS 5677	CAH-MUSIC	3(3,0)	MUT 2247	CAH-MUSIC	1(0,2)	MUT 4344	CAH-MUSIC	1(1,0)
Wellness for the Performing Musician: PR: Graduate standing in music education or C.I. Various techniques and methods of maintaining physical health and wellness for musicians. <i>Occasional.</i>			Ear Training and Sight Singing IIB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117. <i>Spring.</i>			Seminar in Music Arranging: Scoring for choral and instrumental ensembles. <i>Occasional.</i>		
MUT 1002	CAH-MUSIC	3(3,0)	MUT 2960	CAH-MUSIC	0(1,0)	MUT 5381	CAH-MUSIC	3(3,0)
Fundamentals of Music II: PR: MUT 1004. Theory and sight singing skills. <i>Occasional.</i>			Ear-Training Proficiency Exam: PR: MUT 2247. Demonstration of basic skills in ear-training. Required of Music majors. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Occasional.</i>			Arranging and Composing Music: PR: Satisfactory placement tests in theory, sight-singing, and ear training, and graduate status or senior standing or C.I. Arranging and composing music for instrumental and vocal ensembles. Some emphasis on compositional techniques of the 20th century. <i>Even Fall.</i>		

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MUT 5936 CAH-MUSIC 3(3,0) Music Theory Seminar: PR: 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. <i>Occasional.</i>	MVB 2425 CAH-MUSIC 2(1,1) Tuba II: PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit. <i>Fall, Spring.</i>	MVB 5452 CAH-MUSIC 2(1,0) French Horn V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>
MVB 1211 CAH-MUSIC 1(0,1) Secondary Trumpet: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trumpet. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>	MVB 3431 CAH-MUSIC 2-3(1,1) Trumpet III: PR: MVB 2421. Continued study of performance skills of the trumpet, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVB 5453 CAH-MUSIC 2(1,0) Trombone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>
MVB 1212 CAH-MUSIC 1(0,1) Secondary French Horn: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French Horn. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>	MVB 3432 CAH-MUSIC 2-3(1,1) French Horn III: PR: MVB 2422 and competence determined by faculty jury. Continued study of performance skills of the French horn, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVB 5454 CAH-MUSIC 2(1,0) Baritone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>
MVB 1213 CAH-MUSIC 1(0,1) Secondary Trombone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>	MVB 3433 CAH-MUSIC 2-3(1,1) Trombone III: PR: MVB 2423 and competence determined by faculty jury. Continued study of performance skills of the trombone, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVB 5455 CAH-MUSIC 2(1,0) Tuba V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>
MVB 1214 CAH-MUSIC 1(0,1) Secondary Baritone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in baritone. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>	MVB 3434 CAH-MUSIC 2-3(1,1) Euphonium III: PR: MVB 2424 and competence determined by faculty jury. Continued study of performance skills of the euphonium, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVJ 1010 CAH-MUSIC 2(1,1) Jazz Piano I: PR: Music major or C.I. Scale studies, arpeggios, chord voicings, and other techniques included in fundamentals of jazz piano skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 1215 CAH-MUSIC 1(0,1) Secondary Tuba: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>	MVB 3435 CAH-MUSIC 2-3(1,1) Tuba III: PR: MVB 2425 and competence determined by faculty jury. Continued study of performance skills of the tuba, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVJ 1213 CAH-MUSIC 2(1,1) Jazz Guitar I: PR: Music major or C.I. Scales, arpeggios, chord voicings, and other techniques included in fundamentals of jazz guitar skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 1411 CAH-MUSIC 2(1,1) Trumpet I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVB 4441 CAH-MUSIC 4(1,1) Trumpet IV: PR: MVB 3431. Intensive advanced performance study of the trumpet, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVJ 1214 CAH-MUSIC 2(1,1) Jazz Bass I: PR: Music major or C.I. Basic Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 1412 CAH-MUSIC 2(1,1) French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVB 4442 CAH-MUSIC 4(1,1) French Horn IV: PR: MVB 3432 and competence determined by faculty jury. Intensive advanced performance study of the French horn, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVJ 1219 CAH-MUSIC 2(1,1) Jazz Drum Set I: PR: Music major or C.I. Basic Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 1413 CAH-MUSIC 2(1,1) Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVB 4443 CAH-MUSIC 4(1,1) Trombone IV: PR: MVB 3433 and competence determined by faculty jury. Intensive advanced performance study of the trombone, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVJ 2220 CAH-MUSIC 2(1,1) Jazz Piano II: PR: MVJ 1010. Continuation of MVJ 1010. Scale Studies, arpeggios, chord voicings, and other techniques included in progressive jazz piano skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 1414 CAH-MUSIC 2(1,1) Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVB 4444 CAH-MUSIC 4(1,1) Euphonium IV: PR: MVB 3434 and competence determined by faculty jury. Intensive advanced performance study of the euphonium, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVJ 2223 CAH-MUSIC 2(1,1) Jazz Guitar II: PR: MVJ 1213. Continuation of MVJ 1213. Scales, arpeggios, chord voicings and other techniques included in progressive jazz guitar skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 1415 CAH-MUSIC 2(1,1) Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Even Fall, Spring.</i>	MVB 4445 CAH-MUSIC 4(1,1) Tuba IV: PR: MVB 3435 and competence determined by faculty jury. Intensive advanced performance study of the tuba, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVJ 2224 CAH-MUSIC 2(1,1) Jazz Bass II: PR: MVJ 1214. Continuation of MVJ 1214. Progressive Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 2421 CAH-MUSIC 2(1,1) Trumpet II: PR: MVB 1411 and competence determined by faculty jury. Continuation of MVB 1411. May be repeated for credit. <i>Fall, Spring.</i>	MVB 4640 CAH-MUSIC 2(2,0) Brass Pedagogy: PR: Music major and C.I. Methods and materials for teaching instruments in a small group or studio setting. <i>Odd Spring.</i>	MVJ 2229 CAH-MUSIC 2(1,1) Jazz Drum Set II: PR: MVJ 1219. Continuation of MVJ 1219. Progressive Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 2422 CAH-MUSIC 2(1,1) French Horn II: PR: MVB 1412 and competence determined by faculty jury. Continuation of MVB 1412. May be repeated for credit. <i>Fall, Spring.</i>	MVB 5451 CAH-MUSIC 2(1,0) Trumpet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVJ 3230 CAH-MUSIC 3(1,1) Jazz Piano III: PR: MVJ 2220. Continuation of MVJ 2220. Scale studies, arpeggios, chord voicings, and other techniques included in progressive jazz piano skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 2423 CAH-MUSIC 2(1,1) Trombone II: PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit. <i>Fall, Spring.</i>		MVJ 3233 CAH-MUSIC 3(1,1) Jazz Guitar III: PR: MVJ 2223. Continuation of MVJ 2223. Scales, arpeggios, chord voicings and other techniques included in progressive jazz guitar skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>
MVB 2424 CAH-MUSIC 2(1,1) Baritone II: PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit. <i>Fall, Spring.</i>		

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MVJ 3234 CAH-MUSIC 3(1,1) Jazz Bass III: PR: MVJ 2224. Continuation of MVJ 2224. Progressive Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>	MVK 2121 CAH-MUSIC 1(0,2) Class Piano III: PR: MVK 1112, Music major or C.I. Continuation of MVK 1112. Music majors only; not open to music majors whose major instrument is piano. <i>Fall, Spring.</i>	MVP 1211 CAH-MUSIC 1(0,1) Secondary Percussion: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in percussion. Intended for non-music majors. May be repeated for credit. <i>Occasional.</i> M&S fee: \$35.00
MVJ 3339 CAH-MUSIC 3(1,1) Jazz Drum Set III: PR: MVJ 2229. Continuation of MVJ 2229. Progressive Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>	MVK 2122 CAH-MUSIC 1(0,2) Class Piano IV: PR: Music major, MVK 2121 or C.I. Continuation of MVK 2121. Music majors only; not open to music majors whose major instrument is piano. <i>Fall, Spring.</i>	MVP 1411 CAH-MUSIC 2(1,1) Percussion I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00
MVJ 4240 CAH-MUSIC 4(1,1) Jazz Piano IV: PR: MVJ 3230. Continuation of MVJ 3230. Scale studies, arpeggios, chord voicings, and other techniques included in advanced jazz piano skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>	MVK 2421 CAH-MUSIC 2(1,1) Piano II: PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit. <i>Fall, Spring.</i>	MVP 2421 CAH-MUSIC 2(1,1) Percussion II: PR: MVP 1411 and competence determined by faculty jury. Continuation of MVP 1411. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00
MVJ 4243 CAH-MUSIC 4(1,1) Jazz Guitar IV: PR: MVJ 3233. Continuation of MVJ 3233. Scales, arpeggios, chord voicings, and other techniques included in advanced jazz guitar skills. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>	MVK 2423 CAH-MUSIC 2(1,1) Organ II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit. <i>Occasional.</i>	MVP 3431 CAH-MUSIC 2-3(1,1) Percussion III: PR: MVP 2421 and competence determined by faculty jury. Continued study of performance skills of percussion, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i> M&S fee: \$35.00
MVJ 4244 CAH-MUSIC 4(1,1) Jazz Bass IV: PR: MVJ 3234. Continuation of MVJ 3234. Advanced Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>	MVK 3431 CAH-MUSIC 2-3(1,1) Piano III: PR: MVK 2421 and competence determined by faculty jury. Continued study of performance skills of the piano, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVP 3630 CAH-MUSIC 2(2,0) Percussion Pedagogy: PR: Music major, C.I. Teaching methods and materials for percussion students and groups. <i>Fall, Spring.</i>
MVJ 4349 CAH-MUSIC 4(1,1) Jazz Drum Set IV: PR: MVJ 3339. Continuation of MVJ 3339. Progressive Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. <i>Odd Spring.</i>	MVK 3433 CAH-MUSIC 2(1,1) Organ III: PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit. <i>Occasional.</i>	MVP 4441 CAH-MUSIC 4(1,1) Percussion IV: PR: MVP 3431 and competence determined by faculty jury. Intensive advanced performance study of percussion for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i> M&S fee: \$35.00
MVK 1111 CAH-MUSIC 1(0,2) Class Piano I: Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano. <i>Fall, Spring.</i>	MVK 4441 CAH-MUSIC 4(1,1) Piano IV: PR: MVK 3431 and competence determined by faculty jury. Intensive advanced performance study of the piano, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVP 5451 CAH-MUSIC 2(1,0) Percussion V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$35.00
MVK 1112 CAH-MUSIC 1(0,2) Class Piano II: PR: MVK 1111, Music major, or C.I. Continuation of MVK 1111. Music majors only; not open to music majors whose major performing medium is piano. <i>Fall, Spring.</i>	MVK 4443 CAH-MUSIC 2(1,1) Organ IV: PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit. <i>Occasional.</i>	MVS 1211 CAH-MUSIC 1(0,1) Secondary Violin: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in violin. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVK 1211 CAH-MUSIC 1(0,1) Secondary Piano: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in piano. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>	MVK 4640 CAH-MUSIC 1(1,0) Piano Pedagogy I: PR: C.I. Methods, materials for teaching individuals and classes of children and adults beginning to intermediate levels; demonstration and observation of procedures. May be repeated for credit. <i>Even Fall.</i>	MVS 1212 CAH-MUSIC 1(0,1) Secondary Viola: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in viola. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVK 1213 CAH-MUSIC 1(1,1) Secondary Organ: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in organ. Intended for non-music majors. May be repeated for credit. <i>Occasional.</i>	MVK 4641 CAH-MUSIC 1(1,0) Piano Pedagogy II: PR: C.I. Continuation of MVK 4640. Emphasis on intermediate through advanced levels. May be repeated for credit. <i>Odd Spring.</i>	MVS 1213 CAH-MUSIC 1(0,1) Secondary Cello: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in cello. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVK 1411 CAH-MUSIC 2(1,1) Piano I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVK 4960 CAH-MUSIC 0(1,0) Piano Proficiency Exam: PR: C.I. Demonstration of piano skills in basic repertoire, sight-reading, harmonization and transposition. Required of Music majors. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Fall, Spring.</i>	MVS 1214 CAH-MUSIC 1(0,1) Secondary Bass: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in bass. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVK 1413 CAH-MUSIC 2(1,1) Organ I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. <i>Occasional.</i>	MVK 5451 CAH-MUSIC 2(1,0) Piano V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVS 1216 CAH-MUSIC 1(0,1) Secondary Guitar: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in guitar. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVK 1800 CAH-MUSIC 2(2,0) Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training. <i>Fall, Spring.</i>	MVK 5453 CAH-MUSIC 2(1,0) Organ V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Occasional.</i>	MVS 1411 CAH-MUSIC 2(1,1) Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>
MVK 1801 CAH-MUSIC 2(2,0) Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I. <i>Occasional.</i>	MVO 1214 CAH-MUSIC 1(0,1) Secondary Recorder: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in recorder. Intended for non-music majors. May be repeated for credit. <i>Occasional.</i>	MVS 1412 CAH-MUSIC 2(1,1) Viola I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>
	MVO 5250 CAH-MUSIC 1(1,0) Advanced Secondary Instruction: PR: Graduate status or senior standing, and C.I. Advanced instructional techniques on a secondary instrument or in voice. May be repeated for credit. <i>Occasional.</i>	

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MVS 1413 CAH-MUSIC 2(1,1) Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVS 3436 CAH-MUSIC 2-3(1,1) Guitar III: PR: MVS 2426 and competence determined by faculty jury. Continued study of performance skills of the guitar, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 1873 CAH-MUSIC 1(0,1) Secondary Voice: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVS 1414 CAH-MUSIC 2(1,1) Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVS 4346 CAH-MUSIC 4(1,1) Guitar IV: PR: MVS 3436 and competence determined by faculty jury. Intensive advanced performance study of the guitar, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 2322 CAH-MUSIC 1(1,0) Singing Broadway: PR: Concurrent enrollment in MVV 1411 or MVV 2421 or MVV 3431 or MVV 4441. Hearing and singing the American music called "Broadway." Students learn singing techniques utilizing principles of the Italian "Bel Canto" school. May be repeated for credit. <i>Occasional.</i>
MVS 1415 CAH-MUSIC 2(1,1) Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVS 4441 CAH-MUSIC 4(1,1) Violin IV: PR: MVS 3431 and competence determined by faculty jury. Intensive advanced performance study of the violin, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 2421 CAH-MUSIC 2(1,1) Voice II: PR: MVV 1411 and competence determined by faculty jury. CR: MUS 1250. Continuation of MVV 1411. Major in music or consent of chair; audition. Private and class lessons. May be repeated for credit 2 times. <i>Fall, Spring.</i>
MVS 1416 CAH-MUSIC 2(1,1) Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>	MVS 4442 CAH-MUSIC 4(1,1) Viola IV: PR: MVS 3432 and competence determined by faculty jury. Intensive advanced performance study of the viola, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 3431 CAH-MUSIC 2-3(1,1) Voice III: PR: MVV 2421 and competence determined by faculty jury. Continued study of performance skills of the voice, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>
MVS 2421 CAH-MUSIC 2(1,1) Violin II: PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit. <i>Fall, Spring.</i>	MVS 4443 CAH-MUSIC 4(1,1) Cello IV: PR: MVS 3433 and competence determined by faculty jury. Intensive advanced performance study of the cello, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 4441 CAH-MUSIC 4(1,1) Voice IV: PR: MVV 3431 and competence determined by faculty jury. Intensive advanced performance study of the voice, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>
MVS 2422 CAH-MUSIC 2(1,1) Viola II: PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit. <i>Fall, Spring.</i>	MVS 4444 CAH-MUSIC 4(1,1) Bass IV: PR: MVS 3434 and competence determined by faculty jury. Intensive advanced performance study of the string bass, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 4640 CAH-MUSIC 2(2,0) Voice Pedagogy: PR: C.I. Vocal function, anatomy, and pedagogical methodology as applied to the voice teacher and performer. <i>Odd Spring.</i>
MVS 2423 CAH-MUSIC 2(1,1) Cello II: PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit. <i>Fall, Spring.</i>	MVS 4445 CAH-MUSIC 4(1,1) Harp IV: PR: MVS 3435 and competence determined by faculty jury. Intensive advanced performance study of the harp, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 4641 CAH-MUSIC 1(1,0) Voice Pedagogy II: PR: C.I. Continuation of MVV 4640. Intermediate to advanced levels. May be repeated for credit. <i>Odd Spring.</i>
MVS 2424 CAH-MUSIC 2(1,1) Bass II: PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit. <i>Fall, Spring.</i>	MVS 4640 CAH-MUSIC 2(2,0) String Pedagogy: PR: Music major and C.I. Methods and materials for teaching string instruments in a small group or studio setting. <i>Even Spring.</i>	MVV 5451 CAH-MUSIC 2(1,0) Voice V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>
MVS 2425 CAH-MUSIC 2(1,1) Harp II: PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit. <i>Fall, Spring.</i>	MVS 5451 CAH-MUSIC 2(1,0) Violin V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVW 1211 CAH-MUSIC 1(0,1) Secondary Flute: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in flute. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVS 2426 CAH-MUSIC 2(1,1) Guitar II: PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit. <i>Fall, Spring.</i>	MVS 5452 CAH-MUSIC 2(1,0) Viola V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVW 1212 CAH-MUSIC 1(0,1) Secondary Oboe: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in oboe. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVS 3431 CAH-MUSIC 2-3(1,1) Violin III: PR: MVS 2421 and competence determined by faculty jury. Continued study of performance skills of the violin, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVS 5453 CAH-MUSIC 2(1,0) Cello V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVW 1213 CAH-MUSIC 1(0,1) Secondary Clarinet: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in clarinet. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVS 3432 CAH-MUSIC 2-3(1,1) Viola III: PR: MVS 2422 and competence determined by faculty jury. Continued study of performance skills of the viola, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVS 5454 CAH-MUSIC 2(1,0) Bass V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVW 1214 CAH-MUSIC 1(0,1) Secondary Bassoon: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in bassoon. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVS 3433 CAH-MUSIC 2-3(1,1) Cello III: PR: MVS 2423 and competence determined by faculty jury. Continued study of performance skills of the cello, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVS 5455 CAH-MUSIC 2(1,0) Harp V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVW 1215 CAH-MUSIC 1(0,1) Secondary Saxophone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in saxophone. Intended for non-music majors. May be repeated for credit. <i>Fall, Spring.</i>
MVS 3434 CAH-MUSIC 2-3(1,1) Bass III: PR: MVS 2424 and competence determined by faculty jury. Continued study of performance skills of the string bass, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVS 5456 CAH-MUSIC 2(1,0) Guitar V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>	MVW 1411 CAH-MUSIC 2(1,1) Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>
MVS 3435 CAH-MUSIC 2-3(1,1) Harp III: PR: MVS 2425 and competence determined by faculty jury. Continued study of performance skills of the harp, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>	MVV 1111 CAH-MUSIC 1(0,1) Class Voice: Class instruction in beginning voice. May be repeated for credit. <i>Fall, Spring.</i>	

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MVW 1412	CAH-MUSIC	2(1,1)	MVW 4441	CAH-MUSIC	4(1,1)	NGR 5195C	CON-NURS	3(2,1)
Oboe I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>			Flute IV: PR: MVW 3431 and competence determined by faculty jury. Intensive advanced performance study of the flute, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			International Perspectives of Global Health: PR: Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation's health care systems. <i>Occasional.</i>		
MVW 1413	CAH-MUSIC	2(1,1)	MVW 4442	CAH-MUSIC	4(1,1)	NGR 5252	CON-NURS	3(3,0)
Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>			Oboe IV: PR: MVW 3432 and competence determined by faculty jury. Intensive advanced performance study of the oboe, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Psycho-Social Factors and Health Care Outcomes in the Elderly: PR: Post-baccalaureate or graduate status or C.I. Interdisciplinary perspective to examine the relationship between client characteristics, client health care provider interactions and health care outcomes in the elderly. <i>Occasional.</i>		
MVW 1414	CAH-MUSIC	2(1,1)	MVW 4443	CAH-MUSIC	4(1,1)	NGR 5635	CON-NURS	3(3,0)
Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00			Clarinet IV: PR: MVW 3433 and competence determined by faculty jury. Intensive performance study of the clarinet, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Transdisciplinary and Community-Based Strategies of Health Professionals: PR: Graduate standing or C.I. A study of healthcare issues and strategies encountered by speech-language pathologists and nurse practitioners when promoting transdisciplinary and collaborative interactions. <i>Occasional.</i>		
MVW 1415	CAH-MUSIC	2(1,1)	MVW 4444	CAH-MUSIC	4(1,1)	NGR 5637	CON-NURS	3(3,0)
Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit. <i>Fall, Spring.</i>			Bassoon IV: PR: MVW 3434 and competence determined by faculty jury. Intensive advanced performance study of the bassoon, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Advanced Practice Nursing in Rural Settings: PR: Graduate student in COHPA. Focus is on advance practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness. <i>Occasional.</i>		
MVW 2421	CAH-MUSIC	2(1,1)	MVW 4445	CAH-MUSIC	4(1,1)	NGR 5638	CON-NURS	3(3,0)
Flute II: PR: MVW 1411 and competence determined by faculty jury. Continuation of MVW 1411. May be repeated for credit. <i>Fall, Spring.</i>			Saxophone IV: PR: MVW 3435 and competence determined by faculty jury. Intensive advanced performance study of the saxophone, for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Health Promotion: PR: Admission to MSN or Nursing Certificate program or C.I. Exploration and analysis of concepts, theories, research evidence, clinical assessment and interventions for health promotion and wellness. <i>Fall, Spring.</i>		
MVW 2422	CAH-MUSIC	2(1,1)	MVW 5451	CAH-MUSIC	2(1,0)	NGR 5660	CON-NURS	3(3,0)
Oboe II: PR: MVW 1412 and competence determined by faculty jury. Continuation of MVW 1412. May be repeated for credit. <i>Fall, Spring.</i>			Flute V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			Health Disparities: Issues and Strategies: PR: Graduate standing. Explores disparities in access, utilization, services, outcomes, and status for different US populations: data, research, programmatic issues; and strategies to close the gaps. <i>Occasional.</i>		
MVW 2423	CAH-MUSIC	2(1,1)	MVW 5452	CAH-MUSIC	2(1,0)	NGR 5715	CON-NURS	3(3,0)
Clarinet II: PR: MVW 1413 and competence determined by faculty jury. Continuation of MVW 1413. May be repeated for credit. <i>Fall, Spring.</i>			Oboe V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			Instructional Technology Resources for Health Professional Education: PR: EDG 6236, Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources. <i>Spring.</i>		
MVW 2424	CAH-MUSIC	2(1,1)	MVW 5453	CAH-MUSIC	2(1,0)	NGR 5720	CON-NURS	3(3,0)
Bassoon II: PR: MVW 1414 and competence determined by faculty jury. Continuation of MVW 1414. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$20.00			Clarinet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			Organizational Dynamics: PR: 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. <i>Fall.</i>		
MVW 2425	CAH-MUSIC	2(1,1)	MVW 5454	CAH-MUSIC	2(1,0)	NGR 5744	CON-NURS	1(1,0)
Saxophone II: PR: MVW 1415 and competence determined by faculty jury. Continuation of MVW 1415. May be repeated for credit. <i>Fall, Spring.</i>			Bassoon V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			Health Care Systems, Policy and Health Professionals: PR: Admission to the MSN program or C.I. Examine social responses to health and illness, health care systems and policies and the role of advanced practice nurses. <i>Fall, Spring.</i>		
MVW 3431	CAH-MUSIC	2-3(1,1)	MVW 5455	CAH-MUSIC	2(1,0)	NGR 5745	CON-NURS	1(1,0)
Flute III: PR: MVW 2421 and competence determined by faculty jury. Continued study of performance skills of the flute, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Saxophone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. <i>Fall, Spring.</i>			Professional Obligations and Activities of Advanced Practice Nursing: PR: NGR 5746 and NGR 5744. Admission to MSN program or C.I. Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam. <i>Fall, Spring.</i>		
MVW 3432	CAH-MUSIC	2-3(1,1)	NGR 5003	CON-NURS	2(2,0)	NGR 5746	CON-NURS	1(1,0)
Oboe III: PR: MVW 2422 and competence determined by faculty jury. Continued study of performance skills of the oboe, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Advanced Health Assessment and Diagnostic Reasoning: PR: or CR: NGR 5141; CR: NGR 5004L. Concepts and skills of advanced health assessment over the lifespan. Application of the diagnostic reasoning process through differential diagnoses. <i>Fall, Spring.</i>			Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Admission to MSN program or C.I. Examine legal, ethical and political issues related to advanced practice nursing. <i>Fall, Spring.</i>		
MVW 3433	CAH-MUSIC	2-3(1,1)	NGR 5004L	CON-NURS	1(0,1)			
Clarinet III: PR: MVW 2423 and competence determined by faculty jury. Continued study of performance skills of the clarinet, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Advanced Health Assessment and Diagnostic Reasoning (Lab): PR: or CR: NGR 5141; CR: NGR 5003. Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan Graded S/U. <i>Fall, Spring.</i> M&S fee: \$45.00					
MVW 3434	CAH-MUSIC	2-3(1,1)	NGR 5090	CON-NURS	3(3,0)			
Bassoon III: PR: MVW 2424 and competence determined by faculty jury. Continued study of performance skills of the bassoon, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Urgent Care for the Advanced Practice Nurse: PR: NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings. <i>Occasional.</i>					
MVW 3435	CAH-MUSIC	2-3(1,1)	NGR 5141	CON-NURS	3(3,0)			
Saxophone III: PR: MVW 2425 and competence determined by faculty jury. Continued study of performance skills of the saxophone, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. <i>Fall, Spring.</i>			Pathophysiological Bases for Advanced Nursing Practice: PR: Baccalaureate Degree in Nursing. Critical examination of the physiological and pathophysiological mechanisms affecting individuals. <i>Fall, Spring.</i>					
MVW 3630	CAH-MUSIC	2(2,0)						
Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles. <i>Even Fall.</i>								

<p>NGR 5791 CON-NURS 3(3,0) Teaching Strategies for Health Professionals: PR: Bachelors in nursing or consent of instructor. Analysis of internal and external controls on curriculum development for health professionals; application of selected teaching learning theories to classroom and clinical practice. <i>Fall.</i></p>	<p>NUR 3125 CON-NURS 3(3,0) Pathophysiology for Nursing Practice: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum. CR: Concurrent enrollment in NUR 3225; NUR 3225L; NUR 3145; NUR 3445; NUR 3445L. Concepts and nursing care applications of the pathophysiological basis of illness. <i>Fall.</i></p>	<p>NUR 3634L CON-NURS 2(0,6) Community Health Nursing Clinical: PR: Admission to BSN program. CR: NUR 3028 and NUR 3028L; NUR 3755L; NUR 3065 and NUR 3065L; NUR 3825; NUR 3634. Clinical concepts of community health nursing focusing on community as client, and levels of prevention across the lifespan. Graded S/U. <i>Fall.</i> M&S fee: \$45.00</p>
<p>NGR 5800 CON-NURS 3(3,0) Theory for Advanced Practice Nursing: PR: Baccalaureate degree in Nursing or C.I. Conceptual and theoretical bases of nursing practice and research with emphasis on scholarly writing and critique. <i>Fall, Spring.</i></p>	<p>NUR 3145 CON-NURS 3(3,0) Pharmacology for Nursing Practice: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225; NUR 3225L; NUR 3125; NUR 3445; NUR 3445L. Principles of pharmacology and application to nursing practice. <i>Fall.</i></p>	<p>NUR 3755L CON-NURS 2(0,6) Essentials of Nursing Practice Clinical: PR: Admission to BSN Program. CR: NUR 3028 and NUR 3028L; NUR 3065 and NUR 3065L; NUR 3825; NUR 3634 and NUR 3634L. Application of the nursing process, scientific and evidence-based principles in the nursing care of clients in long-term care. Graded S/U. <i>Fall.</i> M&S fee: \$45.00</p>
<p>NGR 5801 CON-NURS 3(3,0) Research Methodology for Advanced Practice Nursing: PR: Undergraduate Research Methods and Statistics or CI; NGR 5800. Measurement strategies in nursing research, data planning and collection techniques, statistical data analysis and interpretation of results, research proposal development, outcomes research and statistical software. <i>Fall, Spring.</i></p>	<p>NUR 3165 CON-NURS 3(3,0) Nursing Research: PR: Admission to the BSN program; STA 2014C or 2023; for Basic program students: successful completion of the first semester; for RN to BSN students: NUR 3805 and RN status; or CI. Nursing research as a basis for nursing practice. Selected experiences in reviewing, analyzing, and interpreting nursing research for nursing practice. <i>Fall, Spring.</i></p>	<p>NUR 3795 CON-NURS 3(3,0) Principles of Oncology Nursing: PR: C.I. or Junior standing. Basic principles and concepts in oncology. Focus on cancer as it affects individuals and families. Emphasis on cancer treatment, symptoms management and psychosocial response. <i>Occasional.</i></p>
<p>NGR 5871 CON-NURS 3(3,0) Health Care Informatics: PR: Baccalaureate in health related field or C.I. Use of information systems, clinical data management, communication strategies, and decision-making models. <i>Fall.</i></p>	<p>NUR 3167 CON-NURS 1(2,0) Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the CON. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues. <i>Spring.</i></p>	<p>NUR 3805 CON-NURS 3(3,0) Dimensions of Professional Nursing Practice: PR: Nursing major/Junior level or C.I.; ENC 1102. Theoretical bases of professional nursing practice for RN to BSN students. <i>Fall, Spring.</i></p>
<p>NGR 5880 CON-NURS 3(3,0) Professional Ethics: PR: C.I. Clinical cases and other professional ethical issues related to codes of conduct and research; application of ethical principles. May be repeated for credit. <i>Occasional.</i></p>	<p>NUR 3225 CON-NURS 3(3,0) Nursing Care of the Adult I: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225L; NUR 3125; NUR 3145; NUR 3445; NUR 3445L. Integrate biopsychosocial models of nursing practice for individuals and families experiencing health risks, short-term illness or chronic health problems. <i>Fall.</i></p>	<p>NUR 3806 CON-NURS 1(1,0) Professional Socialization Seminar: PR: NUR 3065 and C.I. Application of library utilization and professional writing skills, critical thinking and stress management principles to the beginning role of the professional nurse. <i>Spring.</i></p>
<p>NGR 5930 CON-NURS 3(3,0) Issues in Health Care for the Homeless: PR: Pre-senior level baccalaureate status or admission to the graduate program; CI. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless. <i>Occasional.</i></p>	<p>NUR 3225L CON-NURS 3(0,9) Nursing Care of the Adult I: Clinical Practice: PR: Admission to BSN program; successful completion of all courses in the first semester of the nursing curriculum, and concurrent enrollment in NUR 3225; NUR 3125; NUR 3445; NUR 3445L. Clinical experience applying biopsychosocial models of nursing practice for clients experiencing health risks, short-term illness, or chronic health problems. Graded S/U. <i>Fall.</i> M&S fee: \$45.00</p>	<p>NUR 3825 CON-NURS 2(2,0) The Role of the Professional Nurse: PR: Admission to the school of Nursing. Examination of the role and function of the professional nurse, including professional standards, legal and practice issues. <i>Fall, Spring.</i></p>
<p>NGR 5931 CON-NURS 3(3,0) Interdisciplinary Care at End-of-Life: PR: Graduate Status or CI. Examination of interdisciplinary roles and strategies for enabling patients, families; and caregivers to approach end-of-life free from avoidable distress and suffering. <i>Fall.</i></p>	<p>NUR 3445 CON-NURS 3(3,0) Nursing Care of Families: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225; NUR 3225L; NUR 3125; NUR 3145; NUR 3445L. Concepts of family nursing as they relate to health promotion, maintenance and illness management for childbearing and childbearing families. <i>Fall.</i></p>	<p>NUR 3826H CON-NURS 3(3,0) Bioethical and Legal Issues in Health Care -Honors: PR: Permission of Honors. Includes questions concerning human values, legal and ethical questions arising in health care delivery policy issues and professional practice among licensed health care professionals. <i>Occasional.</i></p>
<p>NUR 1015 CON-NURS 3(3,0) Nursing as a Profession: Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care. <i>Fall.</i></p>	<p>NUR 3445L CON-NURS 2(0,6) Nursing Care of Families Clinical: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225; NUR 3225L; NUR 3125; NUR 3145; NUR 3445. Nursing practice to address health promotion, maintenance and illness management needs of childbearing and childbearing families. Graded S/U. <i>Fall.</i> M&S fee: \$45.00</p>	<p>NUR 3936 CON-NURS 3(2,2) International Perspectives of Nursing and Health Care: PR: Enrolled in School of Nursing or C.I. Comparative analysis of professional nursing practice and health care system in the United States and selected countries. May be repeated for credit. <i>Occasional.</i></p>
<p>NUR 3028 CON-NURS 2(2,0) Essentials of Nursing Practice: PR: Admission to BSN program. CR: NUR 3028L; NUR 3065 and NUR 3065L; NUR 3825; NUR 3634 and NUR 3634L. Apply nursing process and core scientific principles to technical psychomotor nursing skills. Integrate evidence-based principles and nursing process to clients in long-term care. <i>Fall.</i></p>	<p>NUR 3634 CON-NURS 3(3,0) Community Health Nursing: PR: Admission to BSN program. CR: NUR 3028 and NUR 3028L; NUR 3755L; NUR 3065 and NUR 3065L; NUR 3825; NUR 3634L. Concepts of community health nursing focusing on community as client and levels of prevention across the lifespan. <i>Fall.</i></p>	<p>NUR 4084 CON-NURS 3(3,0) Transitional Concepts in Nursing II: PR: NUR 3805, NUR 3065, NUR 3165. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3805. <i>Fall, Spring.</i></p>
<p>NUR 3028L CON-NURS 1(0,2) Essentials of Nursing Practice Lab: PR: Admission to BSN program. CR: NUR 3028 and NUR 3028L; NUR 3065 and NUR 3065L; NUR 3825; NUR 3634 and NUR 3634L. Lab to learn and apply scientific and evidence-based principles as they relate to technical psychomotor nursing skills. Graded S/U. <i>Fall.</i> M&S fee: \$45.00</p>	<p>NUR 3665 CON-NURS 2(2,0) Health Assessment: PR: or CR: NUR 3065L, and admission to the School of Nursing or C.I. Concepts of health assessment of clients. <i>Fall, Spring.</i></p>	<p>NUR 4196 CON-NURS 3(3,0) Crisis Intervention: PR: Completion of PSY 2012, SYG 2000 or ANT 2000. Crisis theory and techniques; recognition and intervention in crisis events. Applicable to all areas of nursing and all helping professions. <i>Occasional.</i></p>
<p>NUR 3065 CON-NURS 2(2,0) Health Assessment: PR: or CR: NUR 3065L, and admission to the School of Nursing or C.I. Concepts of health assessment of clients. <i>Fall, Spring.</i></p>	<p>NUR 3665L CON-NURS 1(0,1) Health Assessment Lab: CR: NUR 3065 and admission to the School of Nursing or C.I. Clinical application of concepts and techniques of health assessment of clients. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>NUR 4257 CON-NURS 3(3,0) Introduction to Critical Care Nursing: PR: RN status or C.I. Theories and principles of comprehensive nursing care of individuals and families in critical care settings. <i>Spring.</i></p>
<p>NUR 3065L CON-NURS 1(0,1) Health Assessment Lab: CR: NUR 3065 and admission to the School of Nursing or C.I. Clinical application of concepts and techniques of health assessment of clients. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>NUR 4286 CON-NURS 3(3,0) Gerontologic Nursing: PR: NUR 4286 or RN status or C.I. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings. <i>Occasional.</i></p>	

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<p>NUR 4525 CON-NURS 2(2,0) Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness. <i>Fall, Spring.</i></p>	<p>NUR 4812C CON-NURS 4(1,3) Practicum and Role Development for RN's: PR: For students enrolled in the RN-BSN program only. PR: or CR: NUR 4636, NUR 4636L, NUR 4827, NUR 4837. Synthesis of theories and concepts incorporated throughout the curriculum applied to a selected area of nursing practice and directed toward professional role development. Graded S/U. <i>Fall, Spring.</i></p>	<p>NUR 4942L CON-NURS 3(0,3) Nursing Practicum for International Students: PR: CI (Consent of Instructor). In-depth study of clinical nursing practice for international students. Graded S/U. May be used in the degree program a maximum of 2 times. <i>Occasional.</i></p>
<p>NUR 4525L CON-NURS 1(0,1) Clinical Practice with Mentally Ill Clients: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute healthcare settings serving clients with a primary diagnosis of mental illness. Graded S/U. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>NUR 4827 CON-NURS 3(3,0) Leadership and Management Principles: PR: NUR 3805, RN Status or C.I. Scientific theories and principles of leadership and management needed to function in leadership, management, and teaching roles in professional nursing. Application of decision making process. <i>Fall, Spring.</i></p>	<p>NUR 4945L CON-NURS 4(0,4) Nursing Practicum: PR: Admission to the BSN program; STA 2014C or 2023; for Basic program successful completion of the first three semesters; for RN to BSN students; NUR 3805 and RN status or CI. Designed to enhance student's knowledge and expertise in an area of nursing practice chosen by the student and school of nursing faculty. Graded S/U. <i>Spring.</i></p>
<p>NUR 4550 CON-NURS 3(3,0) Family and Interpersonal Violence: Perspectives for Nurses: PR: PSY 2012, SYG 2000 and enrollment in a nursing program or C.I. Family and interpersonal violence education to increase effective nursing responses including: history, categories, cycles, laws, intervention, nursing resources, protocols and resources. <i>Occasional.</i></p>	<p>NUR 4828 CON-NURS 2(0,2) Professional Issues and Development: PR: RN status, or C.I. CR: NUR 4945L, NUR 4827. Analysis of current issues relating to health care delivery and the baccalaureate graduate entering professional nursing practice. <i>Occasional.</i></p>	<p>NUR 4971H CON-NURS 3(3,0) Thesis or Project Works-Honors: PR: Permission of Honors. This course provides students with faculty mentoring through the process of writing and defending the Honors Thesis or Project. <i>Occasional.</i></p>
<p>NUR 4604L CON-NURS 4(0,12) Practicum in Community and Public Health Nursing for RNs: PR: NUR 3634. CR: NUR 4837, NUR 4827, and NUR 4XXX Public Health Nursing. Synthesis of theories and concepts incorporated throughout the curriculum, applied in the community health and public health nursing setting, and directed toward professional role development. Graded S/U. <i>Fall, Spring.</i></p>	<p>NUR 4829 CON-NURS 3(3,0) Accelerated Transitioning into Professional Practice as a Leader: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4639, NUR 4636L. Application of leadership and management principles to the beginning role of the professional nurse. <i>Occasional.</i></p>	<p>OCE 3008 COS-BIOL 3(3,0) Oceanography: PR: BSC 2010C, CHM 2045C, and CHM 2046. Biological, physical and chemical oceanography. <i>Occasional.</i></p>
<p>NUR 4636 CON-NURS 3(3,0) Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. Fall courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. <i>Fall, Spring.</i></p>	<p>NUR 4835 CON-NURS 2(2,0) Role Transition: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Professional development and role transition of the baccalaureate graduate entering professional nursing practice. <i>Spring.</i></p>	<p>OSE 3490 OPT-OPT 3(3,0) Nanophotonics: PR: PHY 2049 or C.I. Optical/photonic processes on nano scale and interactions with elements of physics & engineering. <i>Occasional.</i></p>
<p>NUR 4636L CON-NURS 2(0,2) Clinical for Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Clinical application of theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Graded S/U. <i>Fall, Spring.</i> M&S fee: \$45.00</p>	<p>NUR 4836 CON-NURS 3(1,2) Professional Development Seminar in Nursing: PR: Acceptance to RN-MSN program track: Current Florida RN license; CR: NUR 3805. Exploration of the role of the professional nurse. <i>Spring.</i></p>	<p>OSE 5041 OPT-OPT 3(3,0) Introduction to Wave Optics: PR: EEL 4440 or PHY 4424 or C.I. Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves. <i>Occasional.</i></p>
<p>NUR 4639 CON-NURS 2(2,0) Accelerated Community as a Continuum of Care: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4829, NUR 4636L. Focus on knowledge needed in a community oriented practice model to effect changes in health status and risk, and self care capacity of target population. <i>Occasional.</i></p>	<p>NUR 4837 CON-NURS 3(3,0) Health Care Issues, Policy, and Economics: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Study of selected health care policy issues relevant to the financing, organization, and delivery of nursing services to populations in the community. <i>Fall, Spring.</i></p>	<p>OSE 5050 OPT-OPT 3(3,0) Fundamentals and Applications of Photonics: PR: Graduate standing or C.I. Introduction to optics and photonics emphasizing the concepts governing applications of current interest for science and engineering senior and first-year graduate students and working scientists and engineers. <i>Occasional.</i></p>
<p>NUR 4675 CON-NURS 3(3,0) Issues in Rural Health Care: PR: NUR 3065 or Junior Status or C.I. The rural environment and appropriate health care services and programs for rural populations. <i>Occasional.</i></p>	<p>NUR 4838L CON-NURS 2(0,2) Directed Practicum in Nursing Administration: CR: NGR 5720. Clinical practice in an area of nursing administration. Graded S/U. <i>Occasional.</i></p>	<p>OSE 5051L OPT-OPT 3(1,4) Electro-Optics Laboratory: PR: EEL 4440 or OSE 5041 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics. <i>Occasional.</i></p>
<p>NUR 4676 CON-NURS 3(3,0) Health Care of Special Populations: Homeless: PR: Completion of junior level nursing courses or equivalent or C.I. Emphasis on socioeconomic, political, nursing, medical, and mental health practice and research related to care of the homeless. <i>Occasional.</i></p>	<p>NUR 4906 CON-NURS Variable Independent Study: Directed Study. <i>Occasional.</i></p>	<p>OSE 5111 OPT-OPT 3(3,0) Optical Wave Propagation: PR: Graduate standing or C.I. Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams. <i>Odd Fall, Even Spring.</i></p>
<p>NUR 4745 CON-NURS 4(4,0) Nursing Care of Clients with Acute and Life-threatening Illness across Lifespan: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing care of individuals and families experiencing acute, unstable, or life-threatening health problems. <i>Fall, Spring.</i></p>	<p>NUR 4907H CON-NURS 3(3,0) Directed Reading/Research-Honors: PR: Permission of Honors and admission to major. The student will review and synthesize literature on a selected topic in preparation for the Honors Thesis or Project. <i>Occasional.</i></p>	<p>OSE 5115 OPT-OPT 3(3,0) Interference and Diffraction: PR: Graduate status or senior standing, or C.I. Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence. <i>Fall, Odd Spring.</i></p>
<p>NUR 4745L CON-NURS 4(0,4) Clinical Practice in Caring for Clients with Acute Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute health care settings with clients experiencing acute, unstable, surgical, or life threatening health conditions. Graded S/U. <i>Fall, Spring.</i> M&S fee: \$45.00</p>	<p>NUR 4930 CON-NURS 3(3,0) Health Issues in Minority and Special Populations: PR: Nursing Majors/Junior Level, or C.I. Identify and critically analyze structural and socio-cultural factors that influence the health of minorities and special populations. <i>Occasional.</i></p>	<p>OSE 5143 OPT-OPT 3(3,0) Fiber Optics Communication: PR: EEL 3552C, EEL 3470. Use of Fiber Optics as a communication channel. Principles of Fiber optics. Mode theory, transmitters, modulators, sensors detectors and demodulators. <i>Occasional.</i></p>
	<p>NUR 4934 CON-NURS 3(3,0) Holistic Nursing: Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes. <i>Occasional.</i></p>	<p>OSE 5203 OPT-OPT 3(3,0) Fundamentals of Applied Optics: PR: Graduate standing or C.I. Fundamentals of Geometrical Optics, Geometrical Theory of Image Formation, Optical System Layout, Radiometry. <i>Fall, Odd Spring.</i></p>
	<p>NUR 4936 CON-NURS 3(3,0) Women's Health Issues: PR: ENC 1102, Junior standing, or C.I. Factors and conditions impacting the health of women. May be repeated for credit. <i>Fall.</i></p>	

<p>OSE 5234L OPT-OPT 3(1,3) Applied Optics Laboratory: PR: Graduate Standing or C.I. Laboratory Techniques for observing optical phenomena and quantitative experimental study of geometrical optics, optical interferometry, diffraction, and image processing. <i>Odd Spring.</i></p>	<p>PAD 4104 HPA-PUB 3(3,0) Administrative Theory: A review of the behavioral aspects of the administrative process, its impact on organizational goal achievement and on supervisory strategies. Some social and structural pathologies affecting administrative practice. <i>Fall, Spring.</i></p>	<p>PAD 4351 HPA-PUB 3(3,0) Issues in Environmental Program Management: CR: PAD 3330. The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects. <i>Spring.</i></p>
<p>OSE 5312 OPT-OPT 3(3,0) Fundamentals of Optical Science: PR: Graduate standing or C.I. Microscopic theory of absorption, dispersion, and refraction of materials; wave propagation, introduction to lasers and nonlinear optics. <i>Even Fall, Odd Spring.</i></p>	<p>PAD 4110 HPA-PUB 3(3,0) Intergovernmental Administration: Various approaches to studying and explaining the American Intergovernmental system. Emphasis on interorganizational activities, i.e., negotiation, cooperation, and coordination within the legal setting. <i>Fall.</i></p>	<p>PAD 4390 HPA-PUB 3(3,0) Hazard Mitigation and Preparedness: PR: PR or CR: PAD 4392. Specialized knowledge and skills necessary to develop a proactive hazard mitigation plan to reduce the effects of natural and technological disasters. <i>Fall.</i></p>
<p>OSE 5313 OPT-OPT 3(3,0) Materials for Optical Systems: PR: Graduate standing or C.I. Course will review key attributes of optical materials that allow them to be used in a range of applications, devices and components in optical systems. <i>Occasional.</i></p>	<p>PAD 4131 HPA-PUB 3(3,0) Public Sector Project Management: Various approaches to managing projects, including using scheduling techniques such as GANTT, CPM, and PERT, as well as team building, facilitating, and leadership skills. <i>Occasional.</i></p>	<p>PAD 4392 HPA-PUB 3(3,0) Emergency Management and Homeland Security: PR: PAD 3003 or C.I. After a public emergency, a variety of services must be provided to the victims. This course reviews and analyzes coordination and management of these services. <i>Fall.</i></p>
<p>OSE 5414 OPT-OPT 3(3,0) Fundamentals of Optoelectronic Devices: PR: Graduate standing or C.I. Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices. <i>Even Fall.</i></p>	<p>PAD 4144 HPA-PUB 3(3,0) Non-Profit Organizations: PR: PAD 3003 or C.I. The operations of non profit organizations, including working with board of directors, volunteer services, fund-raising and grantsmanship, financial management and marketing. <i>Fall, Spring.</i></p>	<p>PAD 4395 HPA-PUB 3(3,0) Disaster Response and Recovery: PR: PR or CR: PAD 4392. Individual, group, organizations and community behavior and recovery from disasters. Service delivery strategies are highlighted and complex dynamics of the recovery process are emphasized. <i>Spring.</i></p>
<p>OSE 5421 OPT-OPT 3(3,0) Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optica waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components. <i>Odd Spring.</i></p>	<p>PAD 4147 HPA-PUB 3(3,0) Resource Development in the Nonprofit Sector: PR: Junior status or C.I. Examination of the development and management of human resources and financial resource development in nonprofit organizations is discussed. <i>Fall.</i></p>	<p>PAD 4414 HPA-PUB 3(3,0) Public Personnel Administration: The history, operating components, structural characteristics, and increasing impact of laws and related sanctions on personnel practices of public agencies. <i>Fall, Spring.</i></p>
<p>OSE 5511 OPT-OPT 3(3,0) Laser Principles: PR: PHY 3101, MAP 2302, PHY 4424, graduate status or senior standing, or C.I. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems. <i>Occasional.</i></p>	<p>PAD 4148 HPA-PUB 3(3,0) Volunteer Management: PR: Junior status or C.I. Examination of recruitment, selection, training and management of volunteers in nonprofit organizations and the application of management theory. <i>Spring.</i></p>	<p>PAD 4446 HPA-PUB 3(3,0) Multiculturalism in Public Administration: PR: PAD 3003 or C.I. This course is designed to help public managers examine public and personal attitudes and values, ethical dilemmas, and social consequences related to issues of diversity. <i>Occasional.</i></p>
<p>OSE 5630C OPT-OPT 3(2,1) Thin Film Optics: PR: PHY 4424 or EEL 4440 and OSE 5041 or OSE 5630C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems. <i>Occasional.</i></p>	<p>PAD 4153 HPA-PUB 3(3,0) Planning and Improvement for Pub Org: Prepare future leaders for the changing paradigms of the public sector by providing education in a variety of quality related areas. <i>Fall.</i></p>	<p>PAD 4461 HPA-PUB 3(3,0) Reengineering Government: PR: PAD 3003. Acquaint undergraduate students with the latest thinking on improving the effectiveness and efficiency of public organizations via reengineering. <i>Occasional.</i></p>
<p>PAD 3003 HPA-PUB 3(3,0) Public Administration in American Society: PR: POS 2041. An examination of the basic environment, culture, and organization of public administration in the United States. <i>Fall, Spring.</i></p>	<p>PAD 4204 HPA-PUB 3(3,0) Fiscal Management: PR: C.I. Analysis of methods of securing public funds, the process of budget making, and techniques of management used in managing public funds. <i>Fall, Spring.</i></p>	<p>PAD 4616 HPA-PUB 3(3,0) Privatization: PR: PAD 3003 or C.I. Analysis of the process of privatizing existing governmental services., including: privatization decision, creation of RFP or ITB, contract award and contract management. <i>Occasional.</i></p>
<p>PAD 3040 HPA-PUB 3(3,0) Ethics and Values in Public Administration: PR: Junior standing or C.I. Ethical dimensions of public administration. Develops the awareness, skills, and value framework to act ethically. <i>Occasional.</i></p>	<p>PAD 4223 HPA-PUB 3(3,0) Public Budgeting: Skills and Techniques: PR: PAD 4204 or C.I. Analytical skills and administrative techniques employed by public budget analysis, focusing on the process of generating and using information. <i>Occasional.</i></p>	<p>PAD 4712 HPA-PUB 3(3,0) Information Systems for Public Managers and Planners: PR: PAD 3330 or C.I. Knowledge and skills concerning information technologies important for planners and public managers, including use of GIS to manipulate and analyze spatial data. <i>Spring.</i></p>
<p>PAD 3330 HPA-PUB 3(3,0) Urban and Regional Planning: PR: PAD 3003 or C.I. Planning topics such as land-use, and comprehensive and urban planning as they relate to the physical aspects of the natural and human environment. <i>Fall, Spring.</i></p>	<p>PAD 4253 HPA-PUB 3(3,0) Community & Economic Development: PR: PAD 3003 or C.I. This course will examine local and regional economic development strategies, with an emphasis on effective policy setting and planning. <i>Fall.</i></p>	<p>PAD 4720 HPA-PUB 3(3,0) Survey Research in Public Administration: Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector. <i>Fall, Spring.</i></p>
<p>PAD 3930 HPA-HPA 1(1,0) American Humanics Human Service Workshop: PR: Enrollment in American Humanics Minor or National Certificate Program through American Humanics Program office. Discussion and activity based course exploring non-profit competencies to prepare students for management and leadership positions in human services. Student Association activities included. May be repeated for credit. <i>Fall, Spring.</i></p>	<p>PAD 4325 HPA-PUB 3(3,0) Program Evaluation for Public and Non-Profit Organizations: PR: PAD 3003 or C.I. To develop an understanding of program evaluation and to apply the process by developing a program evaluation for a program. <i>Spring.</i></p>	<p>PAD 4803 HPA-PUB 3(3,0) Issues in Urban Administration: CR: PAD 3330 or C.I. To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context. <i>Occasional.</i></p>
<p>PAD 4034 HPA-PUB 3(3,0) The Administration of Public Policy: PR: ECO 2023. Problems of values, interests, and objectives and their impact on the administration of public programs, stressing the interplay between social values, policies and administration. <i>Fall, Spring.</i></p>	<p>PAD 4331 HPA-PUB 3(3,0) Land Use and Planning: PR: PAD 3330 or C.I. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl. <i>Fall.</i></p>	<p>PAD 4941 HPA-PUB 3-6(0,6) Public Administration Internship: PR: C.I. Internship in municipal, county, state, or federal government, including assignments in such fields as personnel, planning, budget, and fiscal, procurement, and public safety. Graded S/U. <i>Occasional.</i></p>
<p>PAD 4334 HPA-PUB 3(3,0) Urban Design: CR: PAD 3330 or C.I. Theories and concepts of the physical, cultural, social and financial factors associated with urban design. <i>Spring.</i></p>		

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<p>PAD 4948 HPA-PUB 3(0,3) American Humanics Internship: PR: Enrollment in American Humanics AH Certification Program, completion of 2 AH restricted course electives and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanics certification program. Requires minimum of 300 hours placement in nonprofit human services organization. May be repeated for credit. <i>Fall, Spring.</i></p>	<p>PAD 5850 HPA-PUB 3(3,0) Grant and Contract Management: PR: PAD 3003 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. <i>Fall, Spring.</i></p>	<p>PCB 3233L BCBS-M&M 1(0,3) Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology. <i>Fall, Spring.</i> M&S fee: \$20.00</p>
<p>PAD 5041 HPA-PUB 3(3,0) Ethics and Values in Public Administration: Examination of ethics in the public sector. Public concerns, past patterns, and individual/social aspects of ethical behavior are explored. <i>Occasional.</i></p>	<p>PAF 2102 HPA-HPA 2(2,0) Public Affairs Careers: Introduction and examination of public affairs programs of study and career opportunities that will prepare students for future careers. <i>Fall.</i></p>	<p>PCB 3301C COS-BIOL 4(3,4) Aquatic Biology: PR: BSC 2010C and BSC 2011C, or C.I. Plant and animal components of freshwater environments. <i>Occasional.</i> M&S fee: \$20.00</p>
<p>PAD 5145 HPA-PUB 3(3,0) Volunteerism in Nonprofit Management: PR: Admission to certificate program or C.I. Human resource development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues. <i>Fall, Spring.</i></p>	<p>PAF 3753H HPA-HPA 3(3,0) Honors Ethical Issues in Health and Public Affairs: PR: Permission of Honors and junior standing. Ethical challenges and dilemmas inherent in the fields of Health, Social Work, Criminal Justice and Public Administration. With Honors content. <i>Occasional.</i></p>	<p>PCB 3304C COS-BIOL 4(2,4) River Ecology: PR: BSC 2011C or C.I. Ecology, limnology, and conservation of rivers with special emphasis on Florida water systems. <i>Occasional.</i></p>
<p>PAD 5146 HPA-PUB 3(3,0) Nonprofit Resource Development: PR: Post-bac status or C.I. Examines human resource development and financial resource development in nonprofit organizations including management issues. <i>Fall, Spring.</i></p>	<p>PAF 3850H HPA-HPA 3(3,0) Honors Research Methods in Health and Public Affairs: PR: Participating in University Honors or Honors in the Major and junior standing. Applied research methods in fields of Criminal Justice, Nursing, Health Professions, Public Administration, and Social Work. With honors content. <i>Occasional.</i></p>	<p>PCB 3314 COS-BIOL 3(3,0) Marine Bio Diversity: PR: BSC 2010C, CHM 2045C, and CHM 2046. The diversity of life in our oceans. <i>Occasional.</i></p>
<p>PAD 5336 HPA-PUB 3(3,0) Introduction to Urban Planning: Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning. <i>Fall.</i></p>	<p>PAZ 5235 COS-BIOL 3(3,0) Zoo and Aquarium Biology Management: PR: Successful completion of PCB 3044 and PCB 3063 and C.I. Conservation, propagation and exhibition of wild animals in captivity. <i>Occasional.</i></p>	<p>PCB 3355C COS-BIOL 2(1,1) Tropical Marine Biology: PR: BSC 2010C and BSC 2011C or C.I. Intensive, one week field course at an institute of marine science. Diving/snorkeling will be used extensively to study organisms on pristine coral reefs. <i>Occasional.</i></p>
<p>PAD 5337 HPA-PUB 3(3,0) Urban Design: Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design. <i>Fall.</i></p>	<p>PCB 3023 COS-BIOL 3(3,0) Molecular Cell Biology: PR: BSC 2010C, CHM 2210, and PCB 3063, or C.I. Molecular structure and function of eukaryotic organelles. Transcription: RNA processing, translation and post translation targeting and modification of gene products. <i>Fall, Odd Spring.</i></p>	<p>PCB 3442 COS-BIOL 3(3,0) Florida Aquatic Ecology: PR: BSC 2010C and BSC 2011C, or C.I. An introduction to aquatic ecology of Florida with emphasis on ponds, lakes, streams, and rivers. <i>Occasional.</i></p>
<p>PAD 5338 HPA-PUB 3(3,0) Land Use and Planning Law: Review of national and local aspects of the legal underpinnings of urban planning aspects such as zoning, growth management, and environmental regulation. <i>Spring.</i></p>	<p>PCB 3024L COS-BIOL 2(0,8) Molecular Cell Biology Laboratory: PR: or CR: PCB 3023. Critical thinking, technical skills, and integration of biochemical, molecular, and microscopic experimental approaches to understanding cell structure and function. <i>Occasional.</i></p>	<p>PCB 3522 BCBS-M&M 3(3,0) Molecular Biology I: PR: CHM 2211 and MCB 3020C or C.I. The general principles governing the structure and function of both procaryotic and eucaryotic genes. <i>Fall, Spring.</i></p>
<p>PAD 5356 HPA-PUB 3(3,0) Managing Community and Economic Development: PR: graduate standing or C.I. Overview of economic development activities focusing on policy and managerial issues at the local level. <i>Spring.</i></p>	<p>PCB 3044 COS-BIOL 3(3,0) Principles of Ecology: PR: BSC 2010C, BSC 2011C, and CHM 2045C, or C.I. Elements of ecosystems, biogeochemical cycling, environmental factor interactions, population dynamics, and community development. <i>Fall.</i></p>	<p>PCB 3703C BCBS-M&M 4(3,3) Human Physiology: PR: BSC 2010C, CHM 1032 or CHM 2045C. The physiology and interrelationships of organ systems of the human body. <i>Fall, Spring.</i> M&S fee: \$35.00</p>
<p>PAD 5425 HPA-PUB 3(3,0) Dispute Resolution in the Public Sector: An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods. <i>Occasional.</i></p>	<p>PCB 3044L COS-BIOL 1(0,3) Principles of Ecology Laboratory: PR: or CR: PCB 3044 or C.I. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology. <i>Fall.</i> M&S fee: \$15.00</p>	<p>PCB 3703H BCBS-M&M 4(3,3) Human Physiology Honors: PR: BSC 2010C, CHM 2046 and consent of Honors College. The physiology and interrelationships of organ systems of the human body. With honors level content. <i>Fall.</i></p>
<p>PAD 5427 HPA-PUB 3(3,0) Labor Relations in the Public Sector: Current trends and developments in employment relations in the public sector, especially employee organization, negotiations, and the collective bargaining process. <i>Occasional.</i></p>	<p>PCB 3063 COS-BIOL 3(3,0) Genetics: PR: BSC 2010C and CHM 2046, or C.I. Basic principles of heredity as applied to prokaryotes and eukaryotes. <i>Fall, Spring.</i></p>	<p>PCB 4026 BCBS-M&M 3(3,0) Molecular and Cellular Pharmacology: PR: 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. <i>Spring.</i></p>
<p>PAD 5806 HPA-PUB 3(3,0) Local Government Operations: Operational Functions of municipal and county governments and the role of the chief executive officer. <i>Occasional.</i></p>	<p>PCB 3063H COS-BIOL 3(3,0) Honors Genetics: PR: BSC 2010C and CHM 2046, or C.I., and consent of Honors. Basic principles of heredity as applied to prokaryotes and eukaryotes with honors content. <i>Occasional.</i></p>	<p>PCB 4174 BCBS-M&M 3(3,0) Foundation of Bio-Imaging Science: PR: BSC 2010C, CHM 2045C, CHM 2210, MAC 2311, PHY 2049. Fundamental theory, design, and practice of modern bio-imaging techniques applicable for basic biomedical research. <i>Occasional.</i></p>
<p>PAD 5807 HPA-PUB 3(3,0) Administrative Practice in the Public Sector: The application of various theoretical concepts to the "real world" of public administration. Policy formulation and execution are examined through the case study mode. <i>Occasional.</i></p>	<p>PCB 3063L COS-BIOL 1(0,3) Genetics Laboratory: PR: PR or CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics. <i>Fall, Spring.</i> M&S fee: \$28.00</p>	<p>PCB 4239 BCBS-M&M 3(3,0) Molecular Immunology: PR: PCB 3522. Advanced understanding of the workings of the immune system, correlating cellular and molecular mechanisms with clinical cases. <i>Spring.</i></p>
	<p>PCB 3233 BCBS-M&M 3(3,0) Immunology: PR: BSC 2010C. Basic principles of immune reactions, antigen antibody interactions, cell mediated immunity, tumor immunology, and immuno therapy. <i>Fall.</i></p>	<p>PCB 4251 BCBS-M&M 3(3,0) Tissue Engineering: PR: MCB 3020C or CHM 2045C. Tissue engineering with a special emphasis on the current status of the field, on novel methods and on cell-biomaterial interactions. <i>Occasional.</i></p>
		<p>PCB 4302C COS-BIOL 4(3,4) Physiochemical Limnology: PR: BSC 2010C and BSC 2011C, or C.I. Limnology and methods for freshwater ecology, with respect to physical, and chemical parameters. <i>Occasional.</i> M&S fee: \$15.00</p>

PCB 4303C	COS-BIOL	4(3,4)	PCB 5326C	COS-BIOL	5(3,2)	PEL 2640	ED-TLP	2(1,1)
Biological Limnology: PR: BSC 2010C and BSC 2011C, or C.I. Biological communities in freshwater lakes and streams. <i>Occasional.</i> M&S fee: \$20.00			Ecosystems of Florida: PR: PCB 3044, PCB 3044L or equivalent, and graduate status or senior standing or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation. <i>Occasional.</i> M&S fee: \$15.00			Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies. <i>Occasional.</i>		
PCB 4353	COS-BIOL	3(3,0)	PCB 5435C	COS-BIOL	4(2,6)	PEM 2101	ED-TLP	2(1,1)
Florida Natural History: PR: BSC 2010C and BSC 2011C, or C.I. Florida's ecology, past and present flora and fauna, and naturalists who visited the state. <i>Occasional.</i>			Marine Ecology of Florida: PR: BSC 4312C, graduate status or senior standing, 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. <i>Odd Spring.</i> M&S fee: \$45.00			Body Development: An in-depth study of individual physical (musculo-skeletal, neuromuscular, cardiorespiratory) fitness. Emphasis on individual diagnosis, principles, procedures, and conduct of related exercise programs. <i>Fall, Even Spring.</i>		
PCB 4514	COS-BIOL	3(3,0)	PCB 5485	COS-BIOL	3(3,0)	PEM 2104	ED-TLP	3(2,1)
Genetics II: PR: PCB 3063. Advanced topics in Genetics, including extra-nuclear inheritance, epigenesis, gene and chromosome mutation, genetics of development and behavior, and advanced genetic analytical techniques. <i>Occasional.</i>			Models in Ecology: PR: PCB 3044, MAC 2311 (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature. <i>Occasional.</i> M&S fee: \$15.00			Personal Fitness: Study of personal fitness concepts, with opportunities to develop an individual, optimal level of fitness and an improved lifestyle through high-level wellness. <i>Fall, Spring.</i>		
PCB 4524	BCBS-M&M	3(3,0)	PCB 5665C	COS-BIOL	4(3,2)	PEM 2121C	ED-TLP	3(1,3)
Molecular Biology II: PR: PCB 3522. The processes regulating gene function in prokaryotes and eukaryotes; specialized genetic aspects underlying multi-cellular existence, DNA evolution. <i>Spring.</i>			Human Genetics: PR: PCB 3063, graduate status or senior standing, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species. <i>Occasional.</i> M&S fee: \$15.00			Yoga: Performance and application of a series of basic movement, breathing, and concentration techniques designed to enhance body awareness, flexibility, strength, and balance, and to allow the mind to be focused and centered. <i>Fall, Spring.</i>		
PCB 4524H	BCBS-M&M	3(3,0)	PCO 4203	COS-PSYCH	4(3,2)	PEM 2131	ED-TLP	2(1,1)
Molecular Biology II-Honors: PR: Permission of Honors and PCB 3522. Same as PCB 4525 with honors level content. <i>Spring.</i>			Interviewing and Counseling: PR: PSY 2012, PPE 3003, CLP 3143 and C.I. A review of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and counseling procedures. <i>Fall, Spring.</i>			Strength Resistance Training: Study of fitness and strength development through resistance exercise. <i>Fall, Spring.</i>		
PCB 4529	BCBS-M&M	3(3,0)	PCB 5935	COS-BIOL	3(3,0)	PEM 2171	ED-TLP	2(1,1)
Experimental Molecular Biology: PR: PCB 3522, CR: PCB 4524. Facilitation of experimental data that leads to the development and understanding of the underlying principles of molecular biology. <i>Spring.</i>			Current Research in Population Genetics and Evolution: PR: Genetics and Population Biology or graduate standing in Biology. Fundamentals of population genetics and application to evolutionary theory. <i>Occasional.</i>			Aerobics: Appropriate rhythmical muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate. <i>Fall, Spring.</i>		
PCB 4683	COS-BIOL	4(4,0)	PCB 4683L	COS-BIOL	1(0,2)	PEM 2173	ED-TLP	2(1,1)
Population Biology and Evolution: PR: PCB 3044 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals. <i>Fall, Spring.</i>			Population Biology and Evolution Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. <i>Fall, Spring.</i> M&S fee: \$10.00			Step Aerobics: Appropriate rhythmical muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down. <i>Occasional.</i>		
PCB 4723	COS-BIOL	4(4,0)	PCB 4805	BCBS-M&M	3(3,0)	PEM 2175	ED-TLP	2(1,1)
Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology. <i>Fall.</i>			Endocrinology: PR: PCB 3703C or equivalent; CHM 2211. Mechanisms of action of hormones; interrelationship between the nervous and endocrine systems. <i>Occasional.</i>			Country/Western Dance: Basic instruction in Country/Western Dance. Improve aerobic fitness by learning line dances, circle dances and basic partner steps, such as two-step and waltz. <i>Occasional.</i>		
PCB 5045C	COS-BIOL	4(3,2)	PCB 5238	BCBS-M&M	3(3,0)	PEM 2405	ED-TLP	3(1,2)
Conservation Biology: PR: PCB 3044 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required. <i>Occasional.</i> M&S fee: \$15.00			Immunobiology: PR: PCB 3233, PCB 4239. Advanced topics in immune system dysregulation with special emphasis on innate immunity. <i>Spring.</i>			Self Defense for Women and Men: Designed to provide students with self defense skills. <i>Fall, Spring.</i>		
PCB 5239	BCBS-M&M	3(3,0)	PCB 5239	BCBS-M&M	3(3,0)	PEM 2443	ED-TLP	2(1,2)
Tumor Biology: PR: PCB 4524. A course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology. <i>Occasional.</i>			Tumor Biology: PR: PCB 4524. A course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology. <i>Occasional.</i>			Tae Kwon Do: An analysis and application of the martial arts, as part of an overall physical and mental training system. <i>Occasional.</i>		
PCB 5275	BCBS-M&M	3(3,0)	PEL 2111	ED-TLP	2(1,1)	PEM 5408C	ED-TLP	3(2,1)
Signal Transduction Mechanics: PR: 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. <i>Occasional.</i>			Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals. <i>Fall, Spring.</i>			Controlling Classroom Violence: PR: Graduate standing; certified teacher. A hands-on course dealing with controlling disruption and violence as well as how teachers can protect themselves. <i>Occasional.</i>		
			PEL 2112	ED-TLP	2(1,1)	PEN 1121	ED-TLP	2(1,1)
			Intermediate Bowling: PR: PEL 2111, bowling experience, or average of 140 verification by league sheet. This course provides in-depth information that is necessary for the development of high bowling averages. <i>Occasional.</i>			Elementary Swimming: For non-swimmers and beginning swimmers. Development and study of technique in the basic skills of water safety and swimming. <i>Occasional.</i>		
			PEL 2121	ED-TLP	2(1,1)	PEO 2011	ED-TLP	3(2,1)
			Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. <i>Fall, Spring.</i>			Team Sports: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate team sports as part of the Physical Education program. <i>Fall, Spring.</i> M&S fee: \$5.00		
			PEL 2122	ED-TLP	2(1,1)	PEO 2031	ED-TLP	3(2,1)
			Intermediate Golf: PR: PEL 2121 or equivalent competency. A study of performance and application of intermediate skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. <i>Occasional.</i>			Individual Sports: Skill proficiency and knowledge to plan, implement and evaluate individual sports. <i>Fall, Spring.</i> M&S fee: \$9.00		
			PEL 2341	ED-TLP	2(1,1)			
			Beginning Tennis: Performance and application of basic skills, rules and etiquette. Physiological and social values accruing from this lifetime sport. <i>Occasional.</i>					
			PEL 2342	ED-TLP	2(1,1)			
			Intermediate Tennis: PR: PEL 2341 or equivalent competency. Performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. <i>Occasional.</i>					

UCF Courses and Descriptions

PEO 2624	ED-TLP	3(2,1)	PET 3623C	HPA-HP	3(2,2)	PET 4088	ED-CFCS	3(3,0)
Coaching Basketball: Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies. <i>Fall</i> .			Recognition and Evaluation of Athletic Injuries I: PR: PET 3620C. Recognition and evaluation skills required to perform an injury assessment of the upper extremity, head and neck, and provision of immediate management. <i>Fall</i> .			Physical Activity & Preventive Medicine: PR: ZOO 3736C or C.I. Critique and analysis of evidence that exercise training can prevent some diseases and increase quality of life. <i>Occasional</i> .		
PEO 3041	ED-TLP	3(3,0)	PET 3633C	HPA-HP	2(1,1)	PET 4215	ED-TLP	3(3,0)
Games Analysis: PR: Admission to Physical Education program and Jr. Standing or C.I. Teaching methodology utilizing games for specific outcome behaviors in grades K-12. <i>Occasional</i> .			Clinical Skills for Athletic Trainers: PR: Athletic Training majors only. PET 4603C or C.I. Clinical skills including functional knowledge of muscle, tendon, and ligament anatomy; advanced taping and bracing skills; and clinical assessment skills. <i>Fall</i> . M&S fee: \$30.81			Motivational Aspects of Athletic Performance: PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athlete performance. <i>Fall, Spring</i> .		
PEO 3324	ED-TLP	3(2,1)	PET 3670C	HPA-HP	4(0,8)	PET 4312	ED-TLP	3(2,1)
Coaching Volleyball: Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies. <i>Spring</i> .			Practicum in Athletic Training I: PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer. <i>Fall</i> .			Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement. <i>Fall</i> .		
PEO 3644	ED-TLP	3(2,1)	PET 3671C	HPA-HP	4(0,8)	PET 4315C	HPA-HP	3(2,2)
Coaching Football: Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies. <i>Occasional</i> .			Practicum in Athletic Training II: PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer. <i>Spring</i> .			Biomechanics of Sport: PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries. <i>Fall, Spring</i> .		
PEO 5645C	ED-TLP	3(2,1)	PET 3740C	ED-TLP	2(1,1)	PET 4351C	ED-TLP	3(2,1)
Coaching Football: PR: C.I. Advanced principles and methods common to the coaching of football. Includes teaching and training methods, organization, motivation and strategies. <i>Occasional</i> .			Teaching Physical Education in the Secondary and Middle School (6-12): PR: Admission to Junior Block, or C.I. Curricular and instructional considerations for teaching secondary and middle school physical education. <i>Occasional</i> .			Applied Exercise and Human Physiology: PR: ZOO 3733C, ZOO 3736C or appropriate human anatomy course. Metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport. <i>Fall, Spring</i> .		
PEP 3205	ED-TLP	3(2,1)	PET 3765	ED-TLP	3(3,0)	PET 4401	ED-TLP	3(3,0)
Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics. <i>Occasional</i> .			Coaching Theory: PR: Admitted to COE or CI. Theories of coaching team and individual sports. <i>Fall, Spring</i> .			Administration and Evaluation in Physical Education: This course is designed to address administrative, measurement and evaluation considerations of physical education programs. <i>Fall, Spring</i> .		
PET 2081	ED-TLP	1(1,0)	PET 3768	ED-TLP	3(3,0)	PET 4550	ED-TLP	3(2,1)
Wellness, Children and Schools: Exploration and promotion of wellness for children in schools. <i>Fall, Spring</i> .			Group Exercise Instruction: PR: Admission to the B.S. in Sports and Fitness program or C.I. Requisite knowledge of a variety of group exercise instruction modalities. <i>Fall, Spring</i> .			Fitness Assessment: PR: ZOO 3736C or C.I. A study and acquisition of health related fitness, exercise strategies and related assessment techniques. <i>Occasional</i> .		
PET 2622C	ED-TLP	3(2,1)	PET 3771	ED-TLP	3(3,0)	PET 4603C	HPA-HP	3(2,2)
Human Injuries: PR: C.I. The prevention, identification, care, and rehabilitation of human injuries. <i>Fall, Spring</i> .			Fitness and Conditioning Concepts: PR: ZOO 3736C or C.I. The integration of advanced components of muscular strength training and endurance conditioning for the sports and fitness professional. <i>Fall</i> .			Introduction to Athletic Training: PR: Athletic Training majors only or C.I. Basic athletic training skills including emergency care, taping and wrapping, goniometry and manual muscle testing. <i>Occasional</i> . M&S fee: \$33.50		
PET 3084	ED-TLP	3(3,0)	PET 3820	ED-TLP	3(2,1)	PET 4604	HPA-HP	3(3,0)
Triathlon Training and Performance: PR: PEM 2104 Personal Fitness or C.I. Triathlon concepts, training, and performance, leading to the development of optimal fitness and an improved healthy lifestyle. <i>Occasional</i> .			Teaching Sports Skills I: PR: PEO 2011 or PEO 2031. Skill proficiency and knowledge to plan, implement and evaluate sports and leisure activities in physical education programs. <i>Occasional</i> .			Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries. <i>Spring</i> .		
PET 3137	ED-TLP	3(3,0)	PET 3940	ED-TLP	3(3,0)	PET 4606	HPA-HP	3(3,0)
Concepts & Practices in Sports and Fitness: PR: Admission to the program or C.I. Examination of concepts and practices in sports and fitness. <i>Fall</i> .			Internship I Physical Education: PR: EDG 4323; CR: PET 3930. Student teaching in a physical education program under the supervision of a certified classroom teacher. <i>Occasional</i> .			Applied Fitness in Sport: PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics. <i>Spring</i> .		
PET 3214	COS-PSYCH	3(3,0)	PET 3941	ED-TLP	6(0,16)	PET 4624C	HPA-HP	3(2,2)
Sports Psychology: A review of principles of psychology related to the enhancement of satisfaction and performance in sports. <i>Occasional</i> .			Internship I: PR: Senior standing. EDG 4323. Satisfactory completion of the portfolio. Internship assignment under a certified physical education teacher. Half in elementary, half in secondary. <i>Occasional</i> .			Recognition and Evaluation of Athletic Injuries II: PR: PET 3620C and PET 3623C. Recognition and evaluation skills required to perform an injury assessment of the lower extremity, spine, and general medical conditions and provision of immediate management. <i>Spring</i> .		
PET 3361	ED-TLP	3(3,0)	PET 4002	ED-TLP	3(1,2)	PET 4625	ED-TLP	3(3,0)
Nutrition for Sports and Fitness: PR: ZOO 3736C or C.I. Study of nutrition with focus on the strategies designed to meet nutrient demands for physical activity, exercise, and athletic performance in sports and fitness. <i>Fall</i> .			Outdoor and Leisure Activities: Study of contemporary outdoor and leisure activities. Course will include but not be limited to the "adventure activity curriculum," camping, water activities, fishing, orienteering, hiking. <i>Occasional</i> .			Human Injuries: Mechanisms & Prevention: PR: PET 2622C and ZOO 3736C or C.I. Study of human movement and analysis of techniques for the prevention and treatment of human injuries associated with sports and fitness. <i>Fall</i> .		
PET 3510C	HPA-HP	3(2,1)	PET 4050C	ED-TLP	3(2,1)	PET 4630C	HPA-HP	4(2,4)
Physiologic & Metabolic Basis of Human Movement & Performance: PR: Admission to Health Sciences - Athletic Training Track. Exercise physiology, drugs & nutrition, and performance & injury; each focusing on the key elements for the application of athletic training principles. <i>Fall</i> .			Motor Development and Learning: PR: PE Junior standing. An analysis of the theories and factors influencing the motor development of children and the learning of gross and fine motor skills. <i>Fall, Spring</i> .			Therapeutic Exercise in Athletic Training: PR: PET 3623C. Rehabilitation processes regarding exercise progression for athletic injury. <i>Occasional</i> .		
PET 3620	HPA-HP	3(3,0)	PET 4083C	ED-TLP	4(3,1)	PET 4632C	HPA-HP	4(2,4)
Principles of Athletic Training: PR: PCB 3703C, ZOO 3733C, CHM 2045C, or C.I. Athletic Training majors only. Athletic training principles including injury recognition, emergency care, bloodborne pathogens, rehabilitation and prevention. <i>Occasional</i> . M&S fee: \$15.00			Practical Fitness training: PR: PET 4312, PET 4351C, PET 2622C, PET 4550, PEM 2171. An in-depth study into fitness-related concepts as they are applied to individuals and groups. <i>Fall</i> .			Therapeutic Modalities in Athletic Training: PR: PET 4624C. Principles and techniques for applying therapeutic modalities. <i>Occasional</i> .		

<p>PET 4636C HPA-HP 2(1,1) Advanced Rehabilitation in Athletic Training: PR: Athletic Training majors only. PET 4630C or C.I. Advanced knowledge, skills, and techniques that the certified athletic trainer must perform during rehabilitation of injuries. <i>Fall.</i></p>	<p>PET 5355 ED-TLP 3(3,0) Exercise and Health: PR: Admission to Master's Program or Certificate Program. Will provide educators an in-depth understanding of energy pathways, and neuromuscular, cardiovascular, and respiratory systems during exercise. Emphasis on understanding principles of exercise adaptations and applying those principles to fitness/wellness settings. <i>Occasional.</i></p>	<p>PGY 3630 COS-COMM 3(3,0) Photojournalism III: PR: PGY 3620C. Photography Editing. Assignment selection, picture and copy editing, cropping, picture desk management, and ethics of photojournalism, and the new technological advances. <i>Occasional.</i> M&S fee: \$11.00</p>
<p>PET 4640 ED-TLP 3(3,0) Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed. <i>Spring.</i></p>	<p>PET 5635 ED-TLP 3(3,0) Advanced Human Injuries: PR: PET 2622C or C.I. The application of medical knowledge to sport with the emphasis on preserving the health of an athlete before, during and after performance. <i>Occasional.</i></p>	<p>PGY 3751 CAH-ART 3(3,0) Videography: PR: PGY 3821 or C.I. Creation of video narratives using the digital environment. <i>Occasional.</i></p>
<p>PET 4660C HPA-HP 3(3,0) Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession. <i>Fall.</i></p>	<p>PET 5766 ED-TLP 3(3,0) Advanced Coaching Theory: PR: C.I. Advanced study of theories and methods of coaching for optimum sports performance. <i>Occasional.</i></p>	<p>PGY 3809 CAH-ART 3(3,0) Photography and Web Design: PR: PGY 3821 or C.I. Advanced issues in digital imaging, emphasis on professional output solutions for the photographer such as web as an interface, large format printing, and film recorder. <i>Occasional.</i> M&S fee: \$45.00</p>
<p>PET 4672C HPA-HP 4(0,8) Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. <i>Fall.</i></p>	<p>PET 5931 ED-TLP 3(3,0) Current Issues and Trends in Physical Education and Sport: PR: Admission to the Physical Education Graduate Program or C.I. Examination of the current issues and trends encountered by professionals in physical education and sport. <i>Occasional.</i></p>	<p>PGY 3821 CAH-ART 3(3,0) Digital Imagery for Photography: PR: PGY 1806 or C.I. Current digital imaging software and its application to contemporary work. <i>Occasional.</i> M&S fee: \$45.00</p>
<p>PET 4673C HPA-HP 4(0,8) Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. <i>Spring.</i></p>	<p>PGY 2401C CAH-ART 3(3,2) Beginning Photography: PR: ART 2201C, ART 2300C or C.I. Introduction to photography with an art emphasis. <i>Fall.</i> M&S fee: \$45.00</p>	<p>PGY 4003 CAH-ART 3(3,0) Image, Culture, and Society: PR: PGY 3002 or C.I. The role of the media and media imagery in culture and society. <i>Occasional.</i></p>
<p>PET 4674 HPA-HP 1(1,0) Athletic Training Seminar: PR: PET 4632C, PET 4632C, and Senior standing. National Examination review and introduction to related allied health professionals. <i>Spring.</i></p>	<p>PGY 3002 CAH-ART 3(3,0) Contemporary Photography: PR: ARH 3711 or C.I. Late 20th and 21st century (1970's-present) contemporary movements in photography, special emphasis on issues and ideas relative to contemporary image making. <i>Occasional.</i></p>	<p>PGY 4228 CAH-ART 3(3,0) Advanced Illustrative Photography: PR: PGY 3205 or C.I. Various avenues of photographic illustration, including lighting, historical and contemporary issues, style, presentation, and social concerns. <i>Occasional.</i> M&S fee: \$45.00</p>
<p>PET 4710 ED-TLP 3(3,0) Teaching Physical Education K-12: PR: Must be admitted to internship. Develop effective instructional skills through planning, teaching, and assessment. Curricular and instructional considerations for teaching Physical Education. <i>Odd Fall, Even Spring.</i></p>	<p>PGY 3205 CAH-ART 3(3,0) Photographic Lighting Techniques: PR: PGY 2107, PGY 2215 or C.I. Advanced lighting techniques in both the studio and on location, with projects in the editorial, advertising, or fine art genres. <i>Occasional.</i> M&S fee: \$45.00</p>	<p>PGY 4420C CAH-ART 3(2,3) Advanced Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2410C, and a satisfactory portfolio review or C.I.; Or, admission to the Photography program. Advanced photography skills and portfolio development. Designed for art majors. May be repeated for credit. <i>Fall, Spring.</i> M&S fee: \$45.00</p>
<p>PET 4724 ED-TLP 3(3,0) Development and History of Physical Education Curriculum: A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs. <i>Occasional.</i></p>	<p>PGY 3324 CAH-ART 3(3,0) The Professional Environment: PR: ARH 3711, PGY 3002, or C.I. The world of professional photography, exploring various topics such as legal and ethical issues, marketing and self-promotion strategies. <i>Occasional.</i></p>	<p>PGY 4440C CAH-ART 3(2,3) Special Problems in Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2410C, and a satisfactory portfolio review or C.I.; Or, admission to the Photography program. Designed for upper division art majors with photography concentration. A series of directed photographic problems of a research nature. <i>Occasional.</i> M&S fee: \$20.00</p>
<p>PET 4763 ED-TLP 3(3,0) Coaching Methods And Principles: PR: Junior standing, Coaching minor or C.I. Assist students in understanding and conceptually integrating teaching methods/coaching strategies with emphasis given to conditioning and leadership styles. <i>Occasional.</i></p>	<p>PGY 3410C CAH-ART 3(3,2) Intermediate Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C. Intermediate camera and darkroom practice designed for art majors with studio skills. <i>Spring.</i> M&S fee: \$45.00</p>	<p>PGY 4471 CAH-ART 3(3,0) Photography Thesis: PR: PGY 3324, PGY 4003, or C.I. Senior thesis project culminating in a public exhibition or portfolio presentation. <i>Occasional.</i></p>
<p>PET 4823C ED-TLP 3(2,1) Teaching Sports Skills II: PR: PET 3820. Skill, proficiency and knowledge to plan, implement and evaluate sports skills. <i>Odd Fall, Even Spring.</i></p>	<p>PGY 3451 CAH-ART 3(3,0) Alternative Processes: PR: PGY 4472 or C.I. 19th century photographic processes with related contemporary non-traditional methods of image creation and presentation. <i>Occasional.</i> M&S fee: \$45.00</p>	<p>PGY 4472 CAH-ART 3(3,0) Photography Workshop/Project: PR: PGY 2655, PGY 2216 or C.I. Student personal projects incorporating photographic imagery. Emphasis is on purposeful and well-conceived self-expression and discovery. <i>Occasional.</i> M&S fee: \$45.00</p>
<p>PET 4925 ED-TLP 3-6(0,16) Sports and Fitness Practicum I: PR: Overall GPA of 2.5 and completion of 2/3 of the Sports and Fitness program requirements. Field experience in a sports and fitness related organization. <i>Occasional.</i></p>	<p>PGY 3480 CAH-ART 3(3,0) Photographic Exhibition and Display: PR: ARH 3711, PGY 3002, PGY 3324 or C.I. The museum environment, focusing on the acquisition and display of photographic materials as well as curatorial functions facing contemporary museums. <i>Occasional.</i></p>	<p>PGY 5108C CAH-ART 3(2,4) Advanced Techniques and Concepts in Photography: PR: PGY 2401C, PGY 3410C and PGY 4420C, or admission into MFA Graduate Program. Advanced techniques and concepts in photography, introducing historic and contemporary photographic works. May be used in the degree program a maximum of 3 times. <i>Occasional.</i></p>
<p>PET 4926 ED-TLP 9-12(0,35) Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business. <i>Occasional.</i></p>	<p>PGY 3610C COS-COMM 3(1,4) Photojournalism I: PR: Journalism majors only. Black and white shooting and processing, dark room and computer-based newspaper assignments. 35 MM SLR camera with manual mode required. <i>Fall, Spring.</i> M&S fee: \$45.00</p>	<p>PHH 3041 CAH-PHIL 3(3,0) Russian Philosophy: PR: ENC 1102. A study of major themes and developments in Russian philosophy from the 18th century to the present, including critiques of culture, religion, society, and politics. <i>Occasional.</i></p>
<p>PET 4943 ED-TLP 12(0,35) Internship II: PR: Must have completed course work in specialization. Satisfactory completion of the portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded S/U. <i>Occasional.</i></p>	<p>PGY 3620C COS-COMM 3(1,2) Photojournalism II: PR: PGY 3610C. The Picture Story. Individual and group projects for extended documentary coverage. <i>Odd Spring.</i> M&S fee: \$45.00</p>	
<p>PET 4945 ED-TLP 12(0,35) Internship II: PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. <i>Occasional.</i></p>		

UCF Courses and Descriptions

PHH 3100	CAH-PHIL	3(3,0)	PHI 3022	CAH-PHIL	3(3,0)	PHI 3648	CAH-PHIL	3(3,0)
Ancient Philosophy: PR: PHI 2010 or C.I. Foundations of Western philosophy in ancient Greek thinking about human beings and nature, including the pre-Socratics, Socrates, Plato, Aristotle. <i>Occasional.</i>			Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2010, PHM 3123, or C.I. Examines the contributions of post-structuralist and neoanalytical theories to cultural issues in sexuality and gender. <i>Even Spring.</i>			Ethical Implications of the Human Genome Project: PR: BSC 2010C and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting. <i>Occasional.</i>		
PHH 3200	CAH-PHIL	3(3,0)	PHI 3033	CAH-PHIL	3(3,0)	PHI 3670	CAH-PHIL	3(3,0)
Medieval Philosophy: PR: PHI 2010 or C.I. The influence of Greek philosophical thought in medieval Muslim, Jewish and Christian philosophy, as expressed in its main problems and representative thinkers. <i>Occasional.</i>			Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A multicultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment. <i>Occasional.</i>			Ethical Theory: PR: Junior standing and C.I. Major classical and contemporary topics in ethics, including value theory, utilitarian, deontological, virtue-based and feminist approaches to ethics, rights, and justice; some examination of metaethical issues. <i>Even Spring.</i>		
PHH 3460	CAH-PHIL	3(3,0)	PHI 3083	CAH-PHIL	3(3,0)	PHI 3672	CAH-PHIL	3(3,0)
Modern Western Philosophy: PR: PHI 2010. Major western philosophers and philosophical movements from Descartes to Nietzsche. <i>Even Fall.</i>			Research Methods in Philosophy: PR: Philosophy or Humanities major or C.I. Sources, methods, and styles of research in Philosophy. Aimed at enhancing the research, reading, and writing skills of undergraduate philosophy students. <i>Odd Fall.</i>			Animal Ethics: PR: PHI 2010 or C.I. Key issues and debates in the area of animal ethics, including both theoretical and applied dimensions. <i>Occasional.</i>		
PHH 3510	CAH-PHIL	3(3,0)	PHI 3131	CAH-PHIL	3(3,0)	PHI 3683	CAH-PHIL	3(3,0)
Marx and Nietzsche: PR: Junior standing. The philosophies of Marx and Nietzsche, important differences in outlook and emphasis, the significance of their respective critiques of society, the implications of their contrasting standpoints for understanding human life, the philosophical and ideological influences of their work, and their contemporary relevance. <i>Occasional.</i>			Formal Logic II: PR: PHI 2101. Systematic study of propositional and first-order predicate logic; logistic systems and axiomatic methods; problems of metalogic, including consistency, completeness, and decidability. <i>Occasional.</i>			Philosophy of Friendship: PR: One of: PHI 2010, PHI 3670, PHI 3638, or C.I. Philosophical aspects of friendship, focusing on its interpersonal, moral, social, and political significance and implications. <i>Occasional.</i>		
PHH 3600	CAH-PHIL	3(3,0)	PHI 3320	CAH-PHIL	3(3,0)	PHI 3684	CAH-PHIL	3(3,0)
Contemporary Philosophy: PR: PHI 2010 or C.I. Recent and current trends in philosophy, including philosophical analysis, phenomenology, structuralism, post-structuralism, and liberation philosophies. <i>Occasional.</i>			Philosophy of Mind: PR: PHI 2010, PSY 2012, or C.I. Recent and contemporary attempts to understand the relation of mind to body, the relation of consciousness to personhood, and the relation of psychology to neurobiology. <i>Occasional.</i>			Ways of Living: PR: HUM 2210 or HUM 2230 or C.I. Philosophies of life and the notion of "the good life.". <i>Occasional.</i>		
PHH 3700	CAH-PHIL	3(3,0)	PHI 3323	CAH-PHIL	3(3,0)	PHI 3700	CAH-PHIL	3(3,0)
American Philosophy: PR: PHI 2010 or AMH 2010 or AMH 2020 or C.I. A thematic and chronological survey of philosophical, religious, and scientific developments in American thought, with primary focus on the American spirit of individualism and reform. <i>Even Spring.</i>			Minds and Machines:Philosophy of Cognitive Science: PR: PHI 2010 or C.I. Assumptions undergirding research in Cognitive Science. <i>Fall, Odd Spring.</i>			Philosophy of Religion: PR: REL 2300 or PHI 2010. An examination of basic ideas, beliefs, attitudes, and functions of religion, with emphasis upon questions of conceptual meaning and cognitive justification. <i>Odd Spring.</i>		
PHH 3701	CAH-PHIL	3(3,0)	PHI 3451	CAH-PHIL	3(3,0)	PHI 3720	CAH-PHIL	3(3,0)
Native American Philosophy: PR: PHI 2010 or C.I. Academic Native American philosophy in epistemology, political philosophy and environmental studies. <i>Even Fall.</i>			Philosophy of Psychology: PR: Junior standing or C.I. Philosophical assumptions and foundations of major psychological movements plus other philosophically interesting issues. <i>Occasional.</i>			Faith and Reason: PR: REL 2300 or PHI 2010 or C.I. Emergence of two discrete ways of knowing: Faith and Reason. <i>Occasional.</i>		
PHI 2010	CAH-PHIL	3(3,0)	PHI 3601	CAH-PHIL	1(1,0)	PHI 3750	CAH-PHIL	3(3,0)
Introduction to Philosophy: Inquiry into the meaning and justification of fundamental ideas and beliefs concerning reality, knowledge, and values; application to relevant topics in ethics, religion, and politics. <i>Fall, Spring.</i>			Practical Wisdom: A radio course in applied ethics which focuses on the human good, dealing with the relationship between means and ends and how they define one another. <i>Occasional.</i>			The Problem of Evil: PR: PHI 2010 or C.I. The traditional problem of evil encompassing philosophical, theological, logical, and natural interpretations and assessments of moral and natural evil. <i>Occasional.</i>		
PHI 2010H	CAH-PHIL	3(3,0)	PHI 3625	CAH-PHIL	3(3,0)	PHI 3790	CAH-PHIL	3(3,0)
Honors Introduction to Philosophy: PR: Permission of Honors. Same as PHI 2010 with honors-level content. <i>Fall.</i>			Virtual Ethics: PR: COP 3502C or DIG 2000 or CI. Ethics of virtual worlds as contrasted to the physical world, the use of simulation, virtual environments, and modeling in philosophy, especially in ethics. <i>Occasional.</i>			African Philosophy: PR: Junior standing or C.I. Traditional and contemporary African philosophical thought with primary emphasis on post-colonial philosophy in sub-Saharan Africa. <i>Occasional.</i>		
PHI 2011	CAH-PHIL	3(3,0)	PHI 3626	CAH-PHIL	3(3,0)	PHI 3800	CAH-PHIL	3(3,0)
Philosophical Reasoning: A study of reasoning in philosophy: the role of inconsistency, infinite regress arguments, modeling, and system building, discovery procedures, diagonalization, and contract and paradigm case arguments. <i>Occasional.</i>			Advanced Ethics in Science and Technology: PR: COP 3502C or DIG 2000 or PHI 2647. Critical thinking applied to ethics in science and technology. <i>Fall, Spring.</i>			Aesthetics: PR: PHI 2010, HUM 2230, ARH 2050, or ARH 2051. An investigation into the nature of human artistic experience, with special reference to questions of form, perception, and style. <i>Occasional.</i>		
PHI 2101	CAH-PHIL	3(3,0)	PHI 3629	CAH-PHIL	3(3,0)	PHI 3803	CAH-PHIL	3(3,0)
Formal Logic I: A study of sentence and predicate logics, with introduction to modal, epistemic, deontic, multi-valued, and indeterminant logics. <i>Occasional.</i>			Family Values: PR: PHI 2010, PHI 2630, PHI 3670, or WST 3015. Applied ethics examining legal, religious and other cultural prescriptions related to sexuality, marriage, reproduction, child-rearing and other forms of familial relationship and caregiving. <i>Even Spring.</i>			Philosophy and Creativity: A companion course to PHI 3800, Aesthetics. Examines the empirical and metaphysical claims made for creativity; attempts to account for intuition, genius, and intelligence. <i>Occasional.</i>		
PHI 2108	CAH-PHIL	3(3,0)	PHI 3638	CAH-PHIL	3(3,0)	PHI 3805	CAH-PHIL	3(3,0)
Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action. <i>Occasional.</i>			Ethical Issues in the 21st Century: PR: PHI 2010 or C.I. Applications of ethical theory and moral problem-solving to contemporary issues. <i>Occasional.</i>			Contemporary Aesthetics: PR: PHI 2010, HUM 2210, HUM 2230, ARH 2050 or ARH 2051. Contemporary themes and arguments about visual art in relationship to current aesthetic theories. <i>Occasional.</i>		
PHI 2630	CAH-PHIL	3(3,0)	PHI 3640	CAH-PHIL	3(3,0)	PHI 3941	CAH-PHIL	3(1,3)
Ethics: An examination of the nature of moral problems, judgements and principles, with an emphasis on recent formulations in ethical theory. <i>Occasional.</i>			Environmental Ethics: PR: Junior standing. Major contemporary views in environmental ethics, including individual and holistic approaches, deep ecology, ecofeminism, and social ecology. <i>Occasional.</i>			Philosophy Practicum: PR: C.I. Mentor at-risk grade schoolers and evaluate such work-related concepts as justice and fairness. <i>Occasional.</i>		
PHI 2647	CAH-PHIL	3(3,0)				PHI 4221	CAH-PHIL	3(3,0)
Logic and Ethics: PR: PHI 2101 or COT 3100C or MAD 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics. <i>Occasional.</i>						Philosophy of Language: PR: PHI 2010 or C.I. Nature of language and the relationships between language, reality, cognition, and culture. <i>Spring.</i>		

PHI 4300	CAH-PHIL	3(3,0)	PHI 4938	CAH-PHIL	3(3,0)	PHM 3020	CAH-PHIL	3(3,0)
Theories of Knowledge: PR: Philosophy major or C.I. Classical and contemporary theories of knowledge. A critical examination of various forms of, and reasons for, skepticism, criteria for truth and justification for belief. <i>Occasional.</i>			Senior Research Seminar: PR: Senior standing and Philosophy major. Capstone course on research, developing effective oral and written communication skills. <i>Occasional.</i>			Philosophy of Love: PR: Junior standing and PHI 2010, or C.I. A critical investigation of the meaning and significance of various kinds of love from a variety of philosophical perspectives. <i>Spring.</i>		
PHI 4321	CAH-PHIL	3(3,0)	PHI 4951	CAH-PHIL	1(1,0)	PHM 3100	CAH-PHIL	3(3,0)
Philosophies of Embodiment: Mind/Body/Self: PR: Junior standing and either PHI 2010, PHI 2011, PHI 2108, or C.I. Different ways of understanding relations between mind, body, and nature. Self-knowledge as articulated by western and non-western philosophies from ancient to contemporary times. <i>Occasional.</i>			Portfolio: PR: PHI 3083 and last semester as Philosophy major. Presentation of a representative sampling of student's best work, with appropriate revisions, including a cover narrative indicating development of philosophical knowledge and skills. Graded S/U. <i>Occasional.</i>			Freedom and Justice: Philosophical analysis and evaluation of selected issues arising from the interaction of the individual, society, and the state; includes topics such as freedom, equality, and justice. <i>Occasional.</i>		
PHI 4341	CAH-PHIL	3(3,0)	PHI 5225	CAH-PHIL	3(3,0)	PHM 3123	CAH-PHIL	3(3,0)
Ways of Knowing: PR: PHI 2010 or C.I. Philosophic study of approaches to knowledge, with emphasis on contributions of the knower to how things are known. <i>Fall.</i>			Philosophy of Language: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Philosophy of the nature of language and relationships between language, reality, cognition, and culture. <i>Occasional.</i>			Feminist Theories: PR: ENC 1102. Contemporary issues and perspectives in feminist theory and their relation to divergent feminist practices. <i>Even Fall.</i>		
PHI 4400	CAH-PHIL	3(3,0)	PHI 5325	CAH-PHIL	3(3,0)	PHM 3401	CAH-PHIL	3(3,0)
Philosophy of Science: An examination of the conceptual foundations and methodology of modern science. <i>Occasional.</i>			Topics in Philosophy of Mind: PR: 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. <i>Occasional.</i>			Philosophy of Law: PR: PHI 2010, PHI 2630, PHI 3670, or POS 2041. Study of the nature of, and justifications for, law and punishment. Examination of the concepts of legal personhood, rights and responsibilities. <i>Spring.</i>		
PHI 4420	CAH-PHIL	3(3,0)	PHI 5327	CAH-PHIL	3(3,0)	PHM 4031	CAH-PHIL	3(3,0)
Philosophy of Social Science: An examination of the objectives, methods and guiding norms of the social sciences and their role in the development of human knowledge. <i>Occasional.</i>			Topics in the Cognitive Sciences: PR: 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. <i>Fall.</i>			Environmental Philosophy: PR: PHI 3640, PHI 2630, or C.I. Major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. <i>Occasional.</i>		
PHI 4500	CAH-PHIL	3(3,0)	PHI 5328	CAH-PHIL	3(3,0)	PHM 5035	CAH-PHIL	3(3,0)
Metaphysics: PR: Philosophy major or C.I. Topics include appearance and reality, actions and events, necessity and possibility, identity, nature of persons, mind-body dualism, causality, and free will and determinism. <i>Occasional.</i>			Philosophies of Embodiment: PR: 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. <i>Occasional.</i>			Environmental Philosophy: PR: 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. <i>Occasional.</i>		
PHI 4633	CAH-PHIL	3(3,0)	PHI 5329	CAH-PHIL	3(3,0)	PHP 3781	CAH-PHIL	3(3,0)
Ethics and Biological Science: PR: Completion of the GEP. An application of contemporary thinking to ethical issues arising from the biological sciences, including human and animal experimentation, genetic engineering, biodiversity. <i>Occasional.</i>			Philosophy of Neuroscience: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Neurophilosophy, including discussion of promises and limitations of neuroscience for understanding of the mind. <i>Occasional.</i>			African-American Philosophy: PR: PHI 2010. Analysis of contemporary African-American philosophy and overview of Black philosophy from slavery era writings to the present. <i>Occasional.</i>		
PHI 4633H	CAH-PHIL	3(3,0)	PHI 5340	CAH-PHIL	3(3,0)	PHP 3783	CAH-PHIL	3(3,0)
Honors Ethics and Biological Science: PR: BSC 2010C, a course in Philosophy, and consent of Honors. Contemporary thinking on ethical issues arising from the biological sciences, including human and animal experiments, genetic engineering, and biodiversity. <i>Occasional.</i>			Research Methods in the Cognitive Sciences: PR: Admission to graduate certificate program in Cognitive Sciences or C.I. Interdisciplinary research methods in the cognitive sciences. <i>Spring.</i>			Modernity as a Philosophical Problem: PR: PHI 2010 or PHI 3640 or C.I. Modernity in the philosophies of Kant, Hegel, Nietzsche, Heidegger, Derrida, Rorty, and others. <i>Occasional.</i>		
PHI 4673	CAH-PHIL	3(3,0)	PHI 5627	CAH-PHIL	3(3,0)	PHP 3786	CAH-PHIL	3(3,0)
Medical Ethics: PR: Senior standing or C.I. Ethics of clinical medicine and medical research. <i>Spring.</i>			Theoretical and Applied Ethics: PR: 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. <i>Fall.</i>			Existentialism: Study of existentialist analysis and criticism of the human situation as found in the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus. <i>Odd Fall.</i>		
PHI 4690	CAH-PHIL	3(3,0)	PHI 5634	CAH-PHIL	3(3,0)	PHP 4782	CAH-PHIL	3(3,0)
Ethics in Nanoscience and Nanotechnology: PR: Completion of GEP or Junior standing. Ethical implications of rapid developments in nanoscience and nanotechnology. <i>Odd Fall.</i>			Medical Ethics: PR: Graduate standing or C.I. Ethics for practitioners of clinical medicine, health care delivery and medical research. <i>Fall.</i>			Phenomenology: PR: Junior standing and three Philosophy courses. The philosophy developed in the 20th century in the writings of Husserl, Heidegger, Sartre, Merleau-Ponty, De Beauvoir and Derrida. <i>Odd Spring.</i>		
PHI 4804	CAH-PHIL	3(3,0)	PHI 5665	CAH-PHIL	3(3,0)	PHT 3069	HPA-HP	1(1,0)
Critical Theory: PR: C.I. Critical theory and cultural studies emphasizing current trends as they apply to arts in diverse media. <i>Even Fall.</i>			Knowledge, Responsibility, and Society: PR: 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. <i>Occasional.</i>			Physical Assessment: CR: PHT 3069L. Extensive theory and practice in the examination of the patient. Incorporates a systems approach, utilizing screening and patient problem solving. <i>Occasional.</i>		
PHI 4931	CAH-PHIL	3(3,0)	PHI 5687	CAH-PHIL	3(3,0)	PHT 3069L	HPA-HP	2(0,4)
Philosophy in the News: PR: PHI 2010. Changing course content. A specific topic being covered by the media will be selected for philosophical examination. Course is web enhanced. <i>Occasional.</i>			Ethics in Science and Technology: PR: Graduate standing or C.I. The relationship between ethics and the pursuit and application of human knowledge, emphasizing the responsibility of scientists to society. <i>Occasional.</i>			Physical Assessment Lab: PR: PHT 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient. <i>Occasional.</i>		
PHI 4935	CAH-PHIL	3(3,0)				PHT 3112	HPA-HP	2(2,0)
Topics in Philosophy of Mind: PR: PHI 3320, PHI 3451 or PHI 3323 or C.I. Recent debate in philosophy of mind. Variable topics. Examples: mental representation, consciousness, concepts, free will. May be repeated for credit. <i>Occasional.</i>						Gross Anatomy/Neuroscience I: PR: Admission into the Physical Therapy program. CR: PHT 3112L. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper lower extremities. Regional cadaver dissection. <i>Occasional.</i>		

UCF Courses and Descriptions

PHT 3112L HPA-HP 3(0,6) Gross Anatomy/Neuroscience I Lab: CR: PHT 3112. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. <i>Occasional.</i>	PHT 4230L HPA-HP 1(0,2) Therapeutic Exercise II Lab: CR: PHT 4230. Lab course emphasizing use of various therapeutic exercise modalities. <i>Occasional.</i>	PHT 5156L HPA-HP 2(0,4) Physiology of Therapeutic Exercise Lab: CR: PHT 5156. Lab course emphasizing the clinical application of exercise physiology. <i>Occasional.</i> M&S fee: \$15.00
PHT 3113 HPA-HP 2(2,0) Gross Anatomy/Neuroscience II: PR: PHT 3112; PHT 3112L. CR: PHT 3113L. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. <i>Occasional.</i>	PHT 4307 HPA-HP 3(3,0) Pathology/Pharmacology: PR: PHT 3113. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice. <i>Occasional.</i>	PHT 5218 HPA-HP 2(2,0) Theories and Procedures I: PR: CR Theories and Procedures I Lab. Theories of physical agents, heat, light, cold, water, sound, and massage; problem solving rationale and selection of interventions for inflammation, pain, edema, and weakness. <i>Spring.</i> M&S fee: \$15.00
PHT 3113L HPA-HP 3(0,6) Gross Anatomy/Neuroscience II Lab: CR: PHT 3113. Directed laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. <i>Occasional.</i>	PHT 4308 HPA-HP 2(2,0) Medical Science and Pharmacology II: The impact on movement and posture of various orthopedic and neurological disorders; drugs used in their management. Relates neuropathology and orthopedic pathology to the study of movement. <i>Occasional.</i>	PHT 5218L HPA-HP 1(0,2) Theories and Procedures I lab: PR: CR Theories and Procedures I. Lab course on the clinical applications of heat, light, cold, water, sound, and massage. <i>Spring.</i> M&S fee: \$15.00
PHT 3122 HPA-HP 3(3,0) Clinical Kinesiology: CR: PHT 3122L. Mechanical aspects of human movement, including joint mechanics of the upper and lower extremity, the vertebral column, and tissue mechanics of relevant human tissues. Coordinated with cadaver dissection. <i>Occasional.</i>	PHT 4610 HPA-HP 2(1,3) Clinical Research Problems I: PR: Enrollment in sequence in the Physical Therapy program. Exploration of clinical problem-solving, decision making process. Critical review of relevant medical literature and supervised patient evaluation sessions. <i>Occasional.</i>	PHT 5240 HPA-HP 1(1,0) Physical Assessment: PR: Physical Assessment Lab. Extensive theory and practice in the examination of the patient. Incorporate a systems approach, utilizing screening, and patient problem solving. <i>Fall.</i>
PHT 3122L HPA-HP 3(0,6) Clinical Kinesiology Lab: CR: PHT 3122. Lab course investigating the mechanical aspects of human movement. <i>Occasional.</i>	PHT 5003 HPA-HP 2(2,0) Foundations of Physical Therapy I: PR: Admission to the PT program. Introduction to the profession of physical therapy. <i>Occasional.</i>	PHT 5240L HPA-HP 2(0,4) Physical Assessment Lab: PR: CR Physical Assessment. Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient. <i>Fall.</i> M&S fee: \$25.00
PHT 3155 HPA-HP 2(2,0) Physiology of Therapeutic Exercise: PR: PHT 3259. CR: PHT 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems. <i>Occasional.</i>	PHT 5005 HPA-HP 2(2,0) Foundations of Physical Therapy II: PR: Foundations of Physical Therapy I. Psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching. <i>Occasional.</i>	PHT 5241 HPA-HP 2(2,0) Therapeutic Exercises I: PR: CR Therapeutic Exercises I Lab. Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction. <i>Spring.</i>
PHT 3155L HPA-HP 2(0,4) Physiology of Therapeutic Exercise Lab: CR: PHT 3155. Lab course emphasizing the clinical application of exercise physiology. <i>Occasional.</i>	PHT 5115 HPA-HP 2(2,0) Gross Anatomy/Neuroscience I: PR: Admission to PT program. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper and lower extremities. Regional cadaver dissection. <i>Occasional.</i>	PHT 5241L HPA-HP 2(0,4) Therapeutic Exercise Lab I: PR: Therapeutic Exercise I. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. <i>Spring.</i> M&S fee: \$15.00
PHT 3259 HPA-HP 2(2,0) Patient Care Skills: CR: PHT 3259. Affective, cognitive, and psychomotor skills applied to patient care. Diversity issues discussed. Basic skills of patient care: transfers, mobility skills, draping, gait training. <i>Occasional.</i>	PHT 5115L HPA-HP 2(0,4) Gross Anatomy/Neuroscience I Lab: PR: Admission to PT program. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. <i>Occasional.</i> M&S fee: \$45.00	PHT 5260 HPA-HP 2(2,0) Patient Care Skills: CR: Patient Care Skills Lab. Affective, cognitive, and psychomotor skills, regarding patient care. Basic skills of patient care, transfers, mobility skills, draping, gait training. <i>Fall.</i>
PHT 3259L HPA-HP 1(0,2) Patient Care Skills Lab: CR: PHT 3259. Lab course covering basic skills of patient care: transfers, mobility skills, draping, gait training. <i>Occasional.</i>	PHT 5118 HPA-HP 2(2,0) Gross Anatomy/Neuroscience II: PR: PR Gross Anatomy/Neuroscience I and Lab; CR Gross Anatomy/Neuroscience II Lab. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. <i>Fall.</i>	PHT 5260L HPA-HP 1(0,2) Patient Care Skills Lab: CR: Patient Care Skills. Skills of patient care, transfers, mobility skills. <i>Fall.</i> M&S fee: \$25.00
PHT 3602 HPA-HP 2(2,0) Introduction to Clinical Research: PR: STA 2023. Methods of research applied to clinical environment of physical therapy. Coverage of the language, logic, design and analysis of clinical research. <i>Occasional.</i>	PHT 5118L HPA-HP 2(0,4) Gross Anatomy/Neuroscience II Lab: PR: Gross Anatomy/Neuroscience I and Lab; CR Gross Anatomy/Neuroscience II. Directed Laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. <i>Fall.</i> M&S fee: \$45.00	PHT 5306 HPA-HP 2(2,0) Pathology/Pharmacology: PR: Admission to PT program. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they related to medical management in physical therapy practice. <i>Occasional.</i>
PHT 4119C HPA-HP 4(3,2) Clinical Gross Anatomy: PR: ZOO 3733C and C.I. Review of human anatomical systems using cadavers and emphasizing clinical applications and pathologies. <i>Fall.</i> M&S fee: \$45.00	PHT 5125 HPA-HP 2(2,0) Clinical Kinesiology: CR: 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. <i>Occasional.</i> M&S fee: \$15.00	PHT 5718 HPA-HP 2(2,0) Neurological Physical Therapy: PR: CR Neurological Physical Therapy Lab. Analysis of selected neuromotor theories and their clinical applications. Examinations and interventions for the evaluation and treatment of neurological patients presented. <i>Occasional.</i>
PHT 4222 HPA-HP 2(2,0) Therapeutic Exercise I: PR: PHT 3155; PHT 3155L. CR: PHT 4222L. Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction. <i>Occasional.</i>	PHT 5125L HPA-HP 2(0,2) Clinical Kinesiology Lab: CR: PHT 5125. Concerned with the evaluation and practical application of aspects of human movement, joint mechanics of the upper and lower extremity, vertebral column and soft tissues. <i>Occasional.</i> M&S fee: \$15.00	PHT 5718L HPA-HP 1(0,2) Neurological Physical Therapy Lab: PR: CR Neurological Physical Therapy. Lab Course emphasizing the clinical application of selected neuromotor theories. <i>Occasional.</i> M&S fee: \$15.00
PHT 4222L HPA-HP 1(0,2) Therapeutic Exercise I Lab: CR: PHT 4222. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. <i>Occasional.</i>	PHT 5156 HPA-HP 2(2,0) Physiology of Therapeutic Exercise: PR: Admission to PT program. Exercise physiology investigates the physiological responses and adaptations to human movement including cardiovascular and pulmonary. <i>Occasional.</i>	PHT 5722C HPA-HP 2(2,1) Physical Therapy Integration I: PR: Admission to PT program. Problem solving approach to selected dysfunctions, including burns and open wounds, and selected diagnostic procedures and therapy interventions. <i>Occasional.</i> M&S fee: \$15.00

PHY 5805	HPA-HP	1(0,4)	PHY 3323	COS-PHYS	3(3,0)	PHY 5100	COS-PHYS	1(1,0)
<p>Clinical Education I: PR: Admission to PT program. Full-time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed. Graded S/U. <i>Spring.</i></p>			<p>Electricity and Magnetism I: PR: PHY 2049, MAP 2302. Electrostatics, magnetostatics, Lorentz force current electricity, Maxwell's equations. <i>Fall.</i></p>			<p>Topics in Contemporary Physics for Teachers: PR: Graduate status or senior standing or C.I. The study of recent findings in a selected area such as particle physics, surface physics, planetary atmospheres, lasers, geophysics, etc. May be repeated for credit. <i>Occasional.</i></p>		
PHY 2014C	COS-PHYS	3(2,2)	PHY 3513	COS-PHYS	3(3,0)	PHY 5140C	COS-PHYS	3(3,2)
<p>Physics for Teachers I: PR: C.I. "Hands-on" lecture-laboratory course. Statics, simple machines, density, solar energy, heat, weather, waves, optical reflections, naked eye astronomy. <i>Occasional.</i></p>			<p>Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics. <i>Fall.</i></p>			<p>Ion-Solid Interactions: PR: PHY 4604 or PHY 4324, graduate status or senior standing, or C.I. Physical principals and related scientific and technological applications of ion-solid interactions. <i>Odd Spring.</i></p>		
PHY 2048	COS-PHYS	3(3,0)	PHY 3722C	COS-PHYS	3(1,5)	PHY 5200C	COS-PHYS	1(0.5,1.5)
<p>Physics for Engineers & Scientists I: PR: MAC 2311 or equivalent. Mechanics, Thermodynamics, fluids. <i>Fall, Spring.</i></p>			<p>Physics Laboratory-Electronics: PR: PHY 2049, PHY 2049L. State-of-the-art electronics, transducers, operational amplifiers, phase sensitive circuits, active filters. <i>Occasional.</i> M&S fee: \$15.00</p>			<p>Newtonian Mechanics for Teachers: PR: Graduate status or senior standing or C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics. <i>Occasional.</i></p>		
PHY 2048H	COS-PHYS	3(3,0)	PHY 3752C	COS-PHYS	3(1,5)	PHY 5300C	COS-PHYS	1(0.5,1.5)
<p>Honors Physics for Engineers and Scientists I: PR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048 with honors-level content. <i>Occasional.</i></p>			<p>Physics of Scientific Instruments: PR: PHY 3101 or C.I. Applications, functions and operation of electronic instruments. <i>Occasional.</i> M&S fee: \$12.00</p>			<p>Electricity for Teachers: PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements. <i>Occasional.</i></p>		
PHY 2048L	COS-PHYS	1(0,3)	PHY 3802L	COS-PHYS	3(1,5)	PHY 5302C	COS-PHYS	1(0.5,1.5)
<p>Honors Physics Laboratory for Engineers and Scientists I: PR: Permission of Honors and MAC 2311 or equivalent. Same as PHY 2048L with honors-level content. <i>Occasional.</i></p>			<p>Intermediate Physics Laboratory: PR: PHY 3101 or C.I. Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics. May be repeated for credit. <i>Fall.</i></p>			<p>Electromagnetism for Teachers: PR: Graduate status or senior standing or C.I. Gauss' Law, Biot-Savart Law, Ampere's Law, Faraday's Law, Lenz's law, motors, generators, AC circuits and Maxwell's Equations. <i>Occasional.</i></p>		
PHY 2048L	COS-PHYS	1(0,3)	PHY 4324	COS-PHYS	3(3,0)	PHY 5346	COS-PHYS	3(3,0)
<p>Physics Laboratory for Engineers and Scientists I: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2048. <i>Fall, Spring.</i> M&S fee: \$15.00</p>			<p>Electricity and Magnetism II: PR: PHY 3323. Dielectrics, magnetic materials, electromagnetic waves, reflection, complex impedance, static solutions to Laplace's Equation, radiation from an accelerated charge and antennae, special relativity. <i>Spring.</i></p>			<p>Electrodynamics I: PR: PHY 4324, and graduate status or senior standing or C.I. Boundary value problems in electrostatics and magnetostatics. Maxwell's equations. EM fields in matter, wave generation and propagation; wave guides, resonant cavities. <i>Fall.</i></p>		
PHY 2049	COS-PHYS	3(3,0)	PHY 4424	COS-PHYS	3(3,0)	PHY 5401C	COS-PHYS	1(0.5,1.5)
<p>Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048H. Electricity, magnetism, optics. <i>Fall, Spring.</i></p>			<p>Optics: PR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography. <i>Occasional.</i></p>			<p>Optics for Teachers: PR: Graduate status or senior standing or C.I. Geometrical and physical optics, spectrometers and lasers. <i>Occasional.</i></p>		
PHY 2049H	COS-PHYS	3(3,0)	PHY 4424L	COS-PHYS	3(0,3)	PHY 5455	COS-PHYS	3(3,0)
<p>Honors Physics for Engineers and Scientists II: PR: Permission of Honors and PHY 2048H, MAC 2312. Same as PHY 2049 with honors-level content. <i>Occasional.</i></p>			<p>Optical Physics Laboratory: A laboratory course on geometric optics, interference, diffraction, materials and modern optics. <i>Occasional.</i></p>			<p>Modern X-Ray Science: PR: Graduate status or senior standing or C.I. An introduction to the science and applications of modern x-ray optics, x-ray lasers, etc., with a review of basic properties of x-rays. <i>Occasional.</i></p>		
PHY 2049L	COS-PHYS	1(0,3)	PHY 4445	COS-PHYS	3(3,0)	PHY 5466C	COS-PHYS	1(0.5,1.5)
<p>Physics Laboratory for Engineers and Scientists II: CR: PHY 2049. Laboratory experiments covering selected topics in physics related to PHY 2049. <i>Fall, Spring.</i> M&S fee: \$15.00</p>			<p>Lasers: PR: PHY 3101, MAP 2302, PHY 4424, or C.I. Principles of laser gain media, properties of resonators and modes, and description of specific laser systems. <i>Occasional.</i></p>			<p>Wave Motion for Teachers: PR: Graduate status or senior standing or C.I. Water waves, waves on strings, sound and vibrations. <i>Occasional.</i></p>		
PHY 2053C	COS-PHYS	4(3,3)	PHY 4604	COS-PHYS	3(3,0)	PHY 5500C	COS-PHYS	1(0.5,1.5)
<p>College Physics I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. Mechanics, waves, thermodynamics. <i>Fall, Spring.</i> M&S fee: \$15.00</p>			<p>Wave Mechanics I: PR: PHY 3113. Postulates of Quantum Mechanics. Operators and Observables, Schrodinger equation with simple applications. <i>Fall.</i></p>			<p>Thermal Physics for Teachers: PR: Graduate status or senior standing or C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather. <i>Occasional.</i></p>		
PHY 2054C	COS-PHYS	4(3,3)	PHY 4605	COS-PHYS	3(3,0)	PHY 5524	COS-PHYS	3(3,0)
<p>College Physics II: PR: PHY 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity. <i>Fall, Spring.</i> M&S fee: \$15.00</p>			<p>Wave Mechanics II: PR: PHY 4604. Further applications of quantum mechanics, perturbation theory, scattering theory, identical particles. <i>Spring.</i></p>			<p>Statistical Physics: PR: 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. <i>Spring.</i></p>		
PHY 2090	COS-PHYS	0(0,1.5)	PHY 4803L	COS-PHYS	3(1,5)	PHY 5606	COS-PHYS	3(3,0)
<p>Physics Today: CR: PHY 2048 or PHY 2049. Fundamental physics principles behind recent developments in physics research will be presented in a seminar format. May be repeated for credit. <i>Occasional.</i></p>			<p>Advanced Physics Laboratory: PR: PHY 3802L. Experiments in optics, electronics, nuclear and solid state physics. Emphasis on design, data, and scientific writing. <i>Occasional.</i> M&S fee: \$15.00</p>			<p>Quantum Mechanics I: PR: 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. <i>Fall.</i></p>		
PHY 3101	COS-PHYS	3(3,0)	PHY 4942C	COS-PHYS	3(2,3)	PHY 5650	COS-PHYS	3(3,0)
<p>Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics. <i>Fall, Spring.</i></p>			<p>Practicum in Physics: PR: C.I. Physics laboratories and demonstrations, and the study of recent research on the learning of physics. <i>Occasional.</i></p>			<p>Introduction to Quantum Computation: PR: C.I. Theoretical fundamentals and physical implementations of quantum computation for science and engineering students. <i>Occasional.</i></p>		
PHY 3110H	COS-PHYS	3(3,0)	PHY 5015C	COS-PHYS	3(2,2)			
<p>Honors Physics for Engineers and Scientists III: PR: Permission of Honors and PHY 2049 or PHY 2049H. Same as PHY 3101 with honors-level content. <i>Occasional.</i></p>			<p>Physics for Teachers II: PR: Graduate status or senior standing or C.I. "Hands-on" lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation. <i>Occasional.</i></p>					
PHY 3220	COS-PHYS	3(3,0)						
<p>Mechanics I: PR: PHY 2048 or PHY 2048H, MAP 2302. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton's equations. <i>Spring.</i></p>								

UCF Courses and Descriptions

PHY 5817L	COS-PHYS	1(0,3)	PHZ 5432	COS-PHYS	3(3,0)	PLA 4020	HPA-CJ/LS	3(3,0)
Building Physics Apparatus: PR: Graduate standing or senior standing or C.I. Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work. <i>Occasional.</i> M&S fee: \$45.00			Introduction to Soft Condensed Matter Physics: PR: PHY 3513 or C.I. Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics. Graded S/U. <i>Even Fall.</i>			Law and Society: Examination of the relationship between law and American society including the impact on the legal system and legal profession of major social movements. <i>Occasional.</i>		
PHY 5846C	COS-PHYS	3(3,3)	PHZ 5437	COS-PHYS	3(3,0)	PLA 4223	HPA-CJ/LS	3(3,0)
Methods of Experimental Physics: PR: Graduate status or senior standing or C.I. Introduction to methods of experimental physics, including instrumental design, data acquisition, vacuum, cryogenics, sample preparation, nuclear physics, transport, and spectroscopy. <i>Fall, Spring.</i>			Nanoscale Surface Physics: PR: Undergrad Quantum Mechanics at the level of PHY 4604 or C.I. Overview of physical and chemical properties of nanoscale surfaces. <i>Occasional.</i>			Advanced Trial Advocacy: PR: PLA 4910 or C.I. Litigation and trials at an advanced level; students must handle trial from beginning to end. May be repeated for credit. <i>Occasional.</i>		
PHY 5933	COS-PHYS	3(3,0)	PHZ 5505	COS-PHYS	3(3,0)	PLA 4240	HPA-CJ/LS	3(3,0)
Selected topics in biophysics of macromolecules: PR: 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. <i>Occasional.</i>			Plasma Physics: PR: 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. <i>Occasional.</i>			Negotiation Alternatives in Law: PR: PLA 3013/C.I. Theories and skills involved in negotiation, mediation and other dispute resolutions processes. <i>Occasional.</i>		
PHZ 3113	COS-PHYS	3(3,0)	PHZ 5600	COS-PHYS	1(1,0)	PLA 4263	HPA-CJ/LS	3(3,0)
Introduction to Theoretical Methods of Physics: PR: MAP 2302. Analytical techniques to solve problems of physics. <i>Spring.</i>			Special Relativity for Teachers: PR: Graduate status or senior standing or C.I. Length contraction, time dilation, simultaneity, conservation of mass-energy, conservation of momentum, Compton scattering. <i>Occasional.</i>			Evidence: PR: PLA 3013 and 3201 or C.I. An examination of statutes and cases that define rules of evidence for trial courts. Primary emphasis is on the Florida Evidence Code. <i>Fall, Spring.</i>		
PHZ 3151	COS-PHYS	3(3,0)	PLA 3013	HPA-CJ/LS	3(3,0)	PLA 4423	HPA-CJ/LS	3(3,0)
Computer Methods in Physics: PR: PHY 3101. Non-analytical problems in physics and astronomy solved by approximation with computer assistance. <i>Occasional.</i>			Law and the Legal System: A survey course designed to familiarize the student with the American legal system, ethical considerations, terminology, legal reasoning, and the role of the legal assistant. <i>Fall, Spring.</i>			The Law of Contracts: Study of the basic law of contracts as developed in Anglo-American law and as changed by modern statutes, including the Uniform Commercial Code. Florida contract law will be emphasized. <i>Fall, Spring.</i>		
PHZ 3422	COS-PHYS	3(3,0)	PLA 3104	HPA-CJ/LS	3(3,0)	PLA 4433	HPA-CJ/LS	3(3,0)
Nanophysics: PR: PHY 3101 or C.I. Physical phenomena occurring in nanometer-length scale, including nano colloids, and nano transport. <i>Occasional.</i>			Legal Research: PR: PLA 3013 or C.I. A study of the various research tools used in legal investigation and the methods used to conduct legal research. <i>Fall, Spring.</i>			Florida Partnerships and Corporations: Statutory requirements of Florida partnerships and corporations; creation and dissolution of business organizations, responsibilities of officers and basic rights of stockholders. <i>Fall, Spring.</i>		
PHZ 3601	COS-PHYS	3(3,0)	PLA 3155	HPA-CJ/LS	3(3,0)	PLA 4460	HPA-CJ/LS	3(3,0)
Einstein's Theory of Relativity: PR: PHY 2049. Einstein's special theory of relativity. Introduction to general relativity. <i>Occasional.</i>			Legal Writing: PR: PLA 3104. A study of legal writing format and technique and the preparation of memoranda and other legal documents, using research skills learned in PLA 3104. <i>Fall, Spring.</i>			Bankruptcy Law: PR: C.I. This course will acquaint the student with the substantive law and procedures associated with the rights and obligations of debtors and creditors. <i>Occasional.</i>		
PHZ 4390	COS-PHYS	3(3,0)	PLA 3201	HPA-CJ/LS	3(3,0)	PLA 4472	HPA-CJ/LS	3(3,0)
Nuclear and Particle Physics: PR: PHY 4605 or C.I. The properties of the nuclei and the fundamental particles and how the universe is built from particles. <i>Occasional.</i>			Civil Practice and Procedure: PR: PLA 3013 or C.I. The student becomes familiar with the Florida civil procedure before trial and acquires the ability to prepare basic pleadings. <i>Fall, Spring.</i>			Employment Discrimination Law: PR: C.I. Course will address employment discrimination based on race, gender, religion, national origin, age, disability and sexual orientation. Issues such as workplace harassment will be analyzed. <i>Occasional.</i>		
PHZ 4404	COS-PHYS	3(3,0)	PLA 3201H	HPA-CJ/LS	3(3,0)	PLA 4483	HPA-CJ/LS	3(3,0)
Solid State Physics: PR: PHY 3101 or C.I. Atomic binding, crystalline structure, diffraction and reciprocal lattice, lattice vibration, phonons, electrons in solids, energy bands, semiconductors. <i>Occasional.</i>			Civil practice and Procedure - Honors: PR: Permission of Honors and PLA 3013 or C.I. Same as PLA 3201 with honors level content. <i>Occasional.</i>			Administrative Law: PR: PLA 3013 or PAD 3003. The law regarding governmental agencies with emphasis on the administrative process, Administrative Procedures Acts and special problems of state administrative law. <i>Fall, Spring.</i>		
PHZ 5156	COS-PHYS	3(3,0)	PLA 3273	HPA-CJ/LS	3(3,0)	PLA 4530	HPA-CJ/LS	3(3,0)
Computational Physics: PR: PHZ 3151 or C.I. Computational methods applied to the solution of problems in many branches of physics. May be repeated for credit. <i>Fall.</i>			The Law of Torts: PR: PLA 3013 or C.I. Theories governing liability for civil injuries not arising from contractual obligations; systems and procedures used in preparation, trial and appeal of Torts cases. <i>Fall, Spring.</i>			Legal Issues of the Elderly: PR: PLA 3013. Legal concerns faced by older Americans as they plan their later years and seek to maximize their personal autonomy. <i>Occasional.</i>		
PHZ 5304	COS-PHYS	3(3,0)	PLA 3304	HPA-CJ/LS	3(3,0)	PLA 4583	HPA-CJ/LS	3(3,0)
Nuclear and Particle Physics: PR: PHY 4604 or equivalent, and graduate status or senior standing or C.I. Particles and nuclei, symmetries and conservation laws, interactions, models. <i>Occasional.</i>			Criminal Law: Basic concepts of substantive criminal law. The course includes examination of elements of major crimes, criminal responsibility, legal defenses, and parties to crime. <i>Fall, Spring.</i>			Cyber Law I: PR: PLA 3013. Analysis of copyright, trademark, and patent issues in cyberspace. <i>Occasional.</i>		
PHZ 5405	COS-PHYS	3(3,0)	PLA 3308	HPA-CJ/LS	3(3,0)	PLA 4583H	HPA-CJ/LS	3(3,0)
Condensed Matter Physics: PR: 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. <i>Occasional.</i>			Criminal Procedure: PR: PLA 3013 or CCJ 3024 or C.I. Rules of criminal procedure, with emphasis on Florida rules, including right to counsel, bail, search and seizure, arrest, identification, trial, and post-trial proceedings. <i>Fall, Spring.</i>			Honors Cyber Law: PR: Honors GEP completion or consent of The Burnett Honors College. Copyright, trademark, patent issues in cyberspace; online dispute resolution, privacy, and free speech topics. With Honors Content. <i>Occasional.</i>		
PHZ 5425C	COS-PHYS	3(3,3)	PLA 3610	HPA-CJ/LS	3(3,0)	PLA 4601	HPA-CJ/LS	3(3,0)
Electron Solid Interactions: PR: Undergraduate senior or graduate status or C.I. The physics and applications of electron interactions with solids. Classroom and hands-on laboratory content. <i>Occasional.</i>			Property and Real Estate Law: PR: PLA 3013. Study of the law of real and personal property; real estate transactions and conveyances; closing procedures and title problems. <i>Fall, Spring.</i>			Estates and Trusts: PR: PLA 3013, PLA 3610. A study of wills and trusts, and applicable legal principles of administration of estates through the processes of the Probate Court. <i>Fall, Spring.</i>		
						PLA 4602	HPA-CJ/LS	3(3,0)
						Estate Administration: PR: PLA 4601. Study of the laws and procedures applicable to administration of estates. <i>Occasional.</i>		

PLA 4631 HPA-CJ/LS 3(3,0)
Land Use and Environmental Law: PR: PLA 3013, PLA 3610. Study of the law relating to private and public restraints on land use, including planning, zoning, subdivision and building regulations, with emphasis on recent interpretations by judiciary for environmental protection. *Occasional.*

PLA 4700 HPA-CJ/LS 3(3,0)
Professional Ethics and Liability: PR: PLA 3013. Ethical responsibilities of professionals. Canons of legal ethics, liability for professional malpractice. *Fall, Spring.*

PLA 4710 HPA-CJ/LS 1(1,0)
Careers in Legal Studies: PR: Major in Legal Studies or C.I. Applications of Legal Studies. Students will explore options in legal studies, professional development, and ethics. Graded S/U. *Occasional.*

PLA 4732 HPA-CJ/LS 3(3,0)
Advanced Legal Applications Computer Software: PR: PLA 3013 or C.I. Course will acquaint students with contemporary computer software applications used to satisfy the demands of today's law firms and law-related fields. *Occasional.*

PLA 4763 HPA-CJ/LS 3(3,0)
Law Office Practices: PR: PLA 3013. Organization, operation and management of law office. Interviewing techniques and practical application of work that is done in a law office. *Occasional.*

PLA 4800 HPA-CJ/LS 3(3,0)
Domestic Relations Law: PR: PLA 3013 and PLA 3610, or C.I. An in-depth study of family law focusing on divorce, custody, child support, alimony, adoption and other related matters with an emphasis on Florida law. *Fall, Spring.*

PLA 4813 HPA-CJ/LS 3(3,0)
Juvenile Law and Procedure: PR: PLA 3013 or C.I. Examines both the substantive and procedural law for juvenile delinquency and dependency. Emphasis on Florida law and comparison with other jurisdictions. *Occasional.*

PLA 4823 HPA-CJ/LS 3(3,0)
Sports Law: PR: PLA 3013 or C.I. Introduction to the legal issues and regulation of sports, focusing on torts, contracts, agency and constitutional law as applied to athletes. *Occasional.*

PLA 4824 HPA-CJ/LS 3(3,0)
Legal Issues for Athletic Trainers: PR: C.I. Analysis of the legal issues affecting athletic trainers. *Occasional.*

PLA 4825 HPA-CJ/LS 3(3,0)
Entertainment Law: PR: PLA 3013 or C.I. Introduction to the control and regulation of the entertainment industry and the associated legal issues. *Occasional.*

PLA 4826 HPA-CJ/LS 3(3,0)
Advanced Entertainment Law: PR: PLA 4825. Legal complexities and regulations pertaining to the Entertainment Industry at an advanced level. *Occasional.*

PLA 4830 HPA-CJ/LS 3(3,0)
World Legal Systems: PR: PLA 3013 or equivalent. An examination of various legal traditions and systems of the World. Substantive and procedural laws will be examined. *Occasional.*

PLA 4910 HPA-CJ/LS 3(4,0)
Trial Advocacy: PR: PLA 3013 or C.I. Analysis of the entire litigation process from the initial client interview through the appellate stage, and development of oral advocacy skills. *Fall, Spring.*

PLA 4935 HPA-CJ/LS 3(3,0)
Capstone: Legal Issues: PR: senior status, PLA 3155, Legal Studies major. The legal and socio-legal analysis of issues that require students to synthesize their legal studies education. Course will assist students entering employment or graduate education. *Fall, Spring.*

PLA 5587 HPA-CJ/LS 3(3,0)
Current Issues in Cyberlaw: PR: 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.*

PLA 5937 HPA-CJ/LS 3(1,2)
Seminar in Contemporary Legal Problems: PR: C.I. Analysis of current trends in legislation and court decisions and their significance to American society. *Occasional.*

POR 1120 CAH-LANG 4(4,1)
Elementary Portuguese Language and Civilization I: Introduces the student to Portuguese culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in this language. *Fall.*

POR 1121 CAH-LANG 4(4,1)
Elementary Portuguese Language and Civilization II: PR: POR 1120 or C.I. Continuation of POR 1120. The course emphasizes the four major language skills: reading, writing, listening, and speaking. *Spring.*

POR 2200 CAH-LANG 3(3,0)
Intermediate Portuguese I: PR: POR 1120 or equivalent or C.I. Development of Portuguese language skills at the intermediate level. *Fall, Spring.*

POR 2201 CAH-LANG 3(3,0)
Intermediate Portuguese II: PR: POR 2200 (Intermediate Portuguese I) or equivalent or C.I. Continuation of POR 2200 with emphasis on Portuguese cultures. *Fall, Spring.*

POR 3140 CAH-LANG 3(3,0)
Accelerated Portuguese for Speakers of Romance Languages: PR: FRE 2201, or ITA 2201, or SPN 2201, or course equivalent. Accelerated Portuguese for proficient speakers of Romance Languages. It is expected that students have no prior knowledge of Portuguese. *Occasional.*

POS 2041 COS-POLS 3(3,0)
American National Government: A study of the dynamics of American national government, including its structure, organization, powers, and procedures. *Fall, Spring.*

POS 2041H COS-POLS 3(3,0)
Honors American National Government: PR: Permission of Honors. Same as POS 2041 with honors-level content. *Occasional.*

POS 3122 COS-POLS 3(3,0)
State Government and Public Policy: PR: POS 2041 or C.I. A comparative study of American state governments, political processes, and public policies, with emphasis on Florida. *Spring.*

POS 3122H COS-POLS 3(3,0)
Honors State Government and Public Policy: PR: POS 2041 or C.I. and permission of Honors. A comparative study of American state governments, political processes, and public policies, with emphasis on Florida. With Honors content. *Occasional.*

POS 3173 COS-POLS 3(3,0)
Southern Politics: PR: POS 2041 or C.I. Study of southern politics past and present. Emphasis on factors effecting changes in the region and the states. Southern and national relationship examined. *Spring.*

POS 3182 COS-POLS 3(3,0)
Florida Politics: PR: POS 2041 or C.I. Examines the foundations of Florida government and political behavior, political institutions, and public policy. *Occasional.*

POS 3233 COS-POLS 3(3,0)
Public Opinion: PR: Junior standing or C.I. Nature, impact and development of public opinion, emphasizing the influence of race, gender, age, and class on opinions, voting, and political behavior. *Fall.*

POS 3235 COS-POLS 3(3,0)
Mass Media and Politics: PR: POS 2041 or C.I. Influence of media on campaigns, public officials, public opinion, the definition of political news, and selected public policies. *Occasional.*

POS 3235H COS-POLS 3(3,0)
Honors Mass Media and Politics: PR: POS 2041 or C.I., consent of Honors. Influence of media on campaigns, public officials, public opinion, the definition of political news, and selected public policies. With Honors content. *Occasional.*

POS 3253 COS-POLS 3(3,0)
Contemporary Revolution and Political Violence: Theories and cases of revolutionary change and political violence in the contemporary world. *Occasional.*

POS 3258 COS-POLS 3(3,0)
Politics in Film: PR: POS 2041 or C.I. The influence of motion pictures on popular understanding of American and international politics. *Even Fall.*

POS 3273 COS-POLS 3(3,0)
Voting and Elections: Theoretical and substantive inquiry into U.S. electoral system; includes focus on voter behavior as well as national and state electoral systems. *Occasional.*

POS 3413 COS-POLS 3(3,0)
The American Presidency: PR: POS 2041 or C.I. Examination of historical and contemporary role of the presidency, including the presidential selection process and the office's evolution in status, powers, administrative responsibilities, leadership, and decision-making. *Occasional.*

POS 3424 COS-POLS 3(3,0)
Congress and the Legislative Process: PR: POS 2041 or C.I. Examination of the Congress as an institution undergoing dynamic change; emphasis upon recruitment of legislators, institutional and informal rules, the committee system, legislative procedures. *Fall.*

POS 3443 COS-POLS 3(3,0)
Political Parties and Processes: PR: POS 2041 or C.I. In-depth study of the American political party system in the context of changing American politics; topics include development, organization, reforms, legislative and executive roles. *Occasional.*

POS 3463 COS-POLS 3(3,0)
Interest Groups: PR: POS 2041 or C.I. Analyzes the non-electoral behavior of economics, ideological, and citizen groups; political action committees; and the proliferation of interest organizations over the past quarter century. *Occasional.*

POS 3627 COS-POLS 3(3,0)
Cultural Pluralism and Law: PR: POS 2041. A case law approach to the legal and constitutional aspects of historical and current issues facing minorities in the U.S. *Occasional.*

POS 3703 COS-POLS 3(3,0)
Scope and Methods of Political Science: PR: Junior standing or C.I. The scope and methodology of political analysis. Extensive examination of the discipline, research design and methodology. *Fall, Spring.*

UCF Courses and Descriptions

POS 3949	COS-POLS	0(0,8)	POT 3204	COS-POLS	3(3,0)	PPE 3003	COS-PSYCH	3(3,0)
Cooperative Education in Political Science: PR: Departmental permission required before registering. Cooperative education experience in political science. Graded S/U. May be repeated for credit. <i>Occasional.</i>			American Political Thought: From its sources to the 20th century, including liberalism, puritanism, the Federalist, the rise of industrialism, resulting social movements, modern variations. <i>Odd Fall.</i>			Personality Theory: PR: PSY 2012. A survey of theory and research on the development of personality characteristics. <i>Fall, Spring.</i>		
POS 4074	COS-POLS	3(3,0)	POT 3302	COS-POLS	3(3,0)	PPE 3003H	COS-PSYCH	3(3,0)
Latino Politics: PR: POS 2041 or C.I. Political characteristics of the Latino community in the United States and its impact on U.S. national and international politics and policies. <i>Odd Fall.</i>			Modern Political Ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism. <i>Spring.</i>			Honors Personality Theory: PR: PSY 2012 and Consent of Burnett Honors College. Theory and research on the development of personality characteristics. With Honors content. <i>Occasional.</i>		
POS 4142	COS-POLS	3(3,0)	POT 4003	COS-POLS	3(3,0)	PPE 5055	COS-PSYCH	3(3,0)
Metropolitan Politics: Analysis of political patterns, processes, and issues in American communities. Intergovernmental relations and structural and political arrangements in the existing and emerging metropolitan areas. <i>Occasional.</i>			Political Theory: PR: POS 2041 or C.I. Examination of various normative approaches to the study of political science, stressing contemporary developments in the field. <i>Occasional.</i>			Personality Theories: PR: Graduate status or senior standing or C.I. Critical theoretical models of personality development with applications to counseling, psychotherapy and psychological assessment. <i>Occasional.</i>		
POS 4204	COS-POLS	3(3,0)	POT 4025	COS-POLS	3(3,0)	PSB 3002	COS-PSYCH	3(3,0)
Political Behavior: PR: POS 2041 or C.I. Mass political behavior, concentrating on voting and participation, primarily in the United States. <i>Occasional.</i>			Ancient, Medieval and Early Modern Political Philosophy: Study of the development of political and social ideas in western thought from early Greece through the 17th century. <i>Occasional.</i>			Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. <i>Fall, Spring.</i>		
POS 4206	COS-POLS	3(3,0)	POT 4054	COS-POLS	3(3,0)	PSB 3441	COS-PSYCH	3(3,0)
Political Psychology: The psychological analysis of political behavior, with emphasis on the individual rather than the political system; includes political attitudes and communication, leadership, and personality influences on politics. <i>Occasional.</i>			Modern Political Philosophy: Study of the development of political and social ideas from the 18th century to the present. May be taken independently of POT 4045 (Ancient, Medieval and Early Modern Political Philosophy). <i>Occasional.</i>			Psychobiological Aspects of Drugs: PR: PSY 2012. An advanced course designed for web instruction. Focuses on pharmacology, neurophysiology and neuroanatomy as the foundation of understanding behavior and social consequences of drug use. <i>Spring.</i>		
POS 4246	COS-POLS	3(3,0)	POT 4066	COS-POLS	3(3,0)	PSB 3842	COS-PSYCH	3(3,0)
Political Socialization: PR: POS 2041 or C.I. Analysis of recruitment and socialization processes. Identification of the agents and processes of political socialization in national and cross-cultural contexts. <i>Occasional.</i>			Contemporary Political Theory: PR: Junior standing or C.I. Study of the contemporary debate about the status of rights, utilitarianism, and liberalism, and communitarian Marxist, libertarian, and feminist critiques of liberalism. <i>Occasional.</i>			Sleep and Dreams: PR: PSY 2012. An overview of the psychological and physiological foundations of sleep and dreams. Concrete facts and disturbances of sleep. Cultural perspectives on, and contemporary applications of dreams. <i>Occasional.</i>		
POS 4284	COS-POLS	3(3,0)	POT 4109	COS-POLS	3(3,0)	PSB 4103C	COS-PSYCH	3(2,2)
Judicial Process and Politics: Study of the formal and informal judicial process. Legal culture, bureaucratic model, judicial recruitment and outputs, comparative judicial behavior. <i>Fall, Odd Spring.</i>			Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature. <i>Occasional.</i>			Biofeedback Applications: PR: PSY 2012, PSB 3002 and C.I. Introduction to theory, instrumentation, research and clinical application of biofeedback. Training in use of biofeedback equipment. Lecture/Lab. <i>Occasional.</i>		
POS 4412	COS-POLS	3(3,0)	POT 4305	COS-POLS	3(3,0)	PSB 4240C	COS-PSYCH	4(3,2)
Presidential Campaigning: PR: C.I. Introduces the process of candidate selection, convention behavior, actual campaign process and the transition of power. <i>Occasional.</i>			The State, Society, and the Individual: PR: Junior standing or C.I. The relationship between the state, society, and the individual by discussing the works of major authors from Adam Smith to Robert Axelrod. <i>Odd Fall.</i>			Neuropsychology: PR: PSB 3002. Study of brain function, with particular emphasis on human behavior. Lecture/Lab. <i>Fall, Odd Spring.</i>		
POS 4603	COS-POLS	3(3,0)	POT 4314	COS-POLS	3(3,0)	PSB 4422	COS-PSYCH	3(2,2)
American Constitutional Law: PR: POS 2041 or C.I. Development of American federalism and national power, commerce clause, and nationalization of the economy. <i>Fall.</i>			Contemporary Democratic Theory: PR: POS 2041 or C.I. Study of democratic theories, emphasizing liberal democracy and its critics, elitist theories, participatory democracy, citizen participation, and relevance of empirical research to democratic theory. <i>Occasional.</i>			Brainwaves and Behavior: PR: PSB 3002. Review of research and clinical practice in the use of computerized EEG for treatment of selected physical and psychological disorders. <i>Occasional.</i>		
POS 4604	COS-POLS	3(3,0)	POT 4331	COS-POLS	3(3,0)	PSB 5005	COS-PSYCH	3(3,0)
American Constitutional Law II: PR: POS 2041 or C.I. Development of civil liberties and civil rights in the American federal system. <i>Spring.</i>			Utopia/Dystopia: PR: POS 2041 or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and dystopias. <i>Occasional.</i>			Physiological Psychology: PR: 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. <i>Occasional.</i>		
POS 4622	COS-POLS	3(3,0)	POT 4345	COS-POLS	3(3,0)	PSC 1121	COS-PHYS	3(3,0)
Politics and Civil Rights: PR: Junior standing or C.I. Examination of civil rights issues in the context of political behavior, political institutions and public policy since 1865. <i>Occasional.</i>			Pan-Africanist Thought: PR: INR 2002. Philosophical assumptions, theoretical frameworks, ideological orientations and social/political thinkers that have contributed to the tradition of Pan-Africanist thought. <i>Occasional.</i>			Physical Science: PR: High school algebra or MAC 1105. Fundamental laws of mechanics, heat, waves, electricity, magnetism: chemical processes and equations, properties of gases, liquids, solids, solutions. <i>Fall, Spring.</i> M&S fee: \$2.20		
POS 4742	COS-POLS	3(3,0)	POT 4414	COS-POLS	3(3,0)	PSC 1121H	COS-PHYS	3(3,0)
Geographic Information Systems for the Political Scientist: PR: POS 2041. Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems (GIS) for political science research. <i>Occasional.</i>			Marxist Political Theory: Survey of Marx & Engels and other thinkers, exposing the theoretical underpinnings of nations and groups who have adapted marxist principles for governance. <i>Occasional.</i>			Honors Physical Science: PR: Permission of Honors and MAC 1105 or MGF 1106. PSC 1121 with Honors-level content. <i>Occasional.</i>		
POS 4941L	COS-POLS	3-9(0,3-9)	POT 4632	COS-POLS	3(3,0)	PSC 1121L	COS-PHYS	1(0,2)
Political Science Internship: PR: C.I. Internship working with the national, state, county or municipal government. Assignments with selected civic organizations, elected or appointed officials. May be repeated for credit. <i>Occasional.</i>			Religion and Politics: PR: Junior standing. Institutional and individual relationship of religion and politics including globalization, fundamentalism, secularization, American exceptionalism, political behavior, and the religious origins of current secular concepts. <i>Occasional.</i>			Physical Science Lab: CR: PSC 1121. Experiments to apply the scientific method to observation and analysis in mechanics, heat, light, electricity and magnetism, chemical and physical transformations. <i>Fall, Spring.</i> M&S fee: \$10.00		
						PSY 2012	COS-PSYCH	3(3,0)
						General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. <i>Fall, Spring.</i>		

<p>PSY 2012H COS-PSYCH 3(3,0) Honors General Psychology: PR: Permission of Honors. A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Honors-level content. <i>Fall, Spring.</i></p>	<p>PSY 4215C COS-PSYCH 4(3,2) Advanced Research Methods in Psychology: PR: PSY 3213C. Design, analysis, and interpretation of complex research projects in psychology. <i>Fall, Spring.</i> M&S fee: \$20.00</p>	<p>PUP 4323 COS-POLS 3(3,0) Women and Public Policy: PR: POS 2041 or C.I. Public policies and processes that achieve a disparate impact on women and women's lives in the United States. <i>Occasional.</i></p>
<p>PSY 2023 COS-PSYCH 1(1,0) Careers in Psychology: PR: PSY 2012. An examination of various career opportunities in Psychology, including educational entry requirements, and related professional issues. Graded S/U. <i>Occasional.</i></p>	<p>PSY 4270L COS-PSYCH 3(0,3) Advanced Research Methods Statistical Lab: PR: PSY 3213C and CR: PSY 4215C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports. <i>Occasional.</i> M&S fee: \$15.00</p>	<p>PUP 4404 COS-POLS 3(3,0) Education and Politics: PR: Junior standing or C.I. Western education and the connection between citizenship and education, education funding, and the politics of education reform. <i>Occasional.</i></p>
<p>PSY 3022C COS-PSYCH 3(1,8) Academic Counseling: PR: PSY 2012. Psychology majors only. Research findings, theory, models and techniques of academic counseling and career advising. <i>Occasional.</i></p>	<p>PSY 4305C COS-PSYCH 3(1,4) Advanced Psychological Measurement: PR: or CR: PSY 3302. Application of the theory underlying psychological test and measurement procedures, including reliability, validity, and item analysis. <i>Occasional.</i></p>	<p>PUP 4503 COS-POLS 3(3,0) Government and Science: PR: C.I. Examination of interface between science and government. Focus is upon governmental support for science, social accountability, and the role of the scientist-policy maker in comparative context. <i>Occasional.</i></p>
<p>PSY 3028 COS-PSYCH 3(3,0) Psychology of Career Development: PR: PSY 2012 or C.I. Review of career development theories and current psychological literature on career decision-making. Examination of career development in psychology including educational entry requirements and related issues. <i>Occasional.</i></p>	<p>PSY 4604 COS-PSYCH 3(3,0) History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positions. <i>Occasional.</i></p>	<p>PUP 4510 COS-POLS 3(3,0) Space Policy: An examination of the politics and policy-making involved with the US space program in the context of domestic demands and other international space programs. <i>Even Fall.</i></p>
<p>PSY 3204 COS-PSYCH 4(3,2) Statistical Methods in Psychology: PR: STA 2014C or STA 2023. Standard scores, confidence intervals, sampling distributions, hypothesis testing, correlation and regression as applied to research in psychology. <i>Occasional.</i></p>	<p>PSY 5605 COS-PSYCH 3(3,0) History and Systems of Psychology: PR: Acceptance to Clinical Psychology Ph.D. program or C.I. An examination of modern American psychology from its origins in the late 19th century to the present time. This course is intended for the Ph.D. in Clinical Psychology; in certain instances graduate students in other programs may enroll. <i>Odd Fall.</i></p>	<p>PUP 4602 COS-POLS 3(3,0) Politics of Health: PR: C.I. Analysis of public health policies. Primary focus upon political processes, policymakers, and interest group interventions, including consumers and policy outcomes. Comparative health policies. <i>Occasional.</i></p>
<p>PSY 3213C COS-PSYCH 5(3,2) Research Methods in Psychology: PR: PSY 2012, PSY 3204, and either STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. <i>Fall, Spring.</i> M&S fee: \$20.00</p>	<p>PUP 3014 COS-POLS 3(3,0) Comparative Public Policy: PR: POS 2041 or CPO 3103 or C.I. Areas of public policy such as immigration, education, trade, taxation, and fiscal policy in selected countries. <i>Occasional.</i></p>	<p>PUP 4744 COS-POLS 3(3,0) Government and Business: PR: Junior standing or C.I. Analysis of public policies regarding business. Study includes various levels of government including international organizations. <i>Occasional.</i></p>
<p>PSY 3213H COS-PSYCH 4(3,2) Honors Research Methods in Psychology: PR: Permission of Honors and PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Honors content. <i>Occasional.</i></p>	<p>PUP 3203 COS-POLS 3(3,0) Environmental Politics: PR: POS 2041 or C.I. An examination of politics and policy-making concerning issues of conservation, pollution and development of land, air, and water resources. <i>Odd Fall.</i></p>	<p>PUP 4931 COS-POLS 3(3,0) Topics in Public Policy: Intensive analysis of a current policy problem. Sample topics include education, growth management, housing, affirmative action, welfare, and transportation. May be used in the degree program a maximum of 2 times. <i>Occasional.</i></p>
<p>PSY 3302 COS-PSYCH 3(3,0) Psychological Measurement: PR: PSY 2012 and STA 2014C or STA 2023. A study of the theory underlying psychological tests and measurements procedures, including reliability, validity, and item analysis. <i>Occasional.</i></p>	<p>PUP 3314 COS-POLS 3(3,0) Minorities in American Politics: Historical and contemporary role of minority groups in the American political process, including an examination of their electoral significance and relevant legislative, executive, and judicial policies. <i>Occasional.</i></p>	<p>PUR 3100 COS-COMM 3(2,1) Writing for Public Relations: PR: AD/PR Majors only. Development of skills in writing for public relations. <i>Fall, Spring.</i></p>
<p>PSY 3320C COS-PSYCH 3(2,2) Survey Methods in Psychology: PR: PSY 3213C and SOP 3004. Sampling methods, questionnaire construction, and interpretation of results. <i>Occasional.</i></p>	<p>PUP 3325 COS-POLS 3(3,0) Women and Political Behavior: PR: POS 2041 or C.I. Women's role in the political process, emphasizing women in the governmental and policy process. <i>Odd Fall.</i></p>	<p>PUR 4000 COS-COMM 3(3,0) Public Relations: PR: SPC 1600. Principles and practice of Public Relations including techniques, research tools publicity, and management. <i>Fall, Spring.</i></p>
<p>PSY 3624 COS-PSYCH 3(3,0) Parapsychology: PR: PSY 2012. An examination of the history and development of research on paranormal phenomena, with special emphasis on recent developments in extrasensory perception and psychokinesis. <i>Occasional.</i></p>	<p>PUP 3508 COS-POLS 3(3,0) Space Studies: PR: Junior standing or C.I. Multidisciplinary overview of space studies, providing familiarity with some technical aspects as well as the relationship between technical and public policy considerations. <i>Occasional.</i></p>	<p>PUR 4110C COS-COMM 3(1,3) Public Relations Publications: PR: ENC 2210 or PUR 3100 or JOU 2100C or ENC 3250. Basic principles and techniques of desktop production of public relations publications. <i>Fall, Spring.</i></p>
<p>PSY 3630 COS-PSYCH 3(3,0) Psychology of Human-Animal Interaction: PR: PSY 2012. Psychological aspects of human relationships with animals. <i>Occasional.</i></p>	<p>PUP 4003 COS-POLS 3(3,0) American Public Policy: PR: POS 2041 or C.I. Policy formation, implementation and evaluation, with a focus upon contemporary American problems, including the malapportionment of societal power and social conflict. <i>Occasional.</i></p>	<p>PUR 4203 COS-COMM 3(3,0) PR/Advertising Ethics and Law: PR: Admitted to the Advertising/Public Relations (B.A.) and ADV 3008. Legal precedents applicable to advertising and public relations as well as ethical considerations for both. <i>Fall, Spring.</i></p>
<p>PSY 3951 COS-PSYCH 1-9(3-30) Undergraduate Field Work: PR: Senior standing and C.I. Placement in a community agency for supervised experience in applications of psychology to community problems. May be repeated for credit. Graded S/U. <i>Fall, Spring.</i></p>	<p>PUP 4204 COS-POLS 3(3,0) Sustainability: PR: POS 2041 or C.I. Environmental politics through the lens of "sustainability." Attention devoted to the relationships of culture, economics, and ecology. <i>Odd Fall.</i></p>	<p>PUR 4801 COS-COMM 3(3,0) Public Relations Case Studies: PR: AD/PR majors only and PUR 4000 or C.I. Discussion and analysis of public relations cases highlighting the application of PR theory to advance organizational goals. <i>Fall, Spring.</i></p>
<p>PSY 4025 COS-PSYCH 3(3,0) The Psychology of Art: PR: PSY 2012, and ARH 2050 or ARH 2051. Discussion of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity. <i>Occasional.</i></p>	<p>PUP 4209 COS-POLS 3(3,0) Urban Environmental Policy: PR: POS 2041. Public policy, ecology, and the urban political landscape explored by tracing their development and prospects for sustainable cities. <i>Occasional.</i></p>	<p>QMB 3201 BA-ECON 3(3,0) Quantitative Economics Business Tools: PR: Junior standing; ECO 2013, ECO 2023, and ECO 3401. Statistical Tools and Applications in Economics. <i>Occasional.</i></p>
		<p>RAT 3001 HPA-HP 3(3,0) Introduction to Radiation Oncology: PR: Acceptance into program. An overview of radiation therapy treatment procedures and patient care considerations. <i>Occasional.</i></p>

UCF Courses and Descriptions

RAT 3241	HPA-HP	3(3,0)	RED 4311	ED-CFCS	3(3,0)	REL 2300H	CAH-PHIL	3(3,0)
Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy. <i>Occasional.</i>			Primary Reading, Writing, and Language Arts Curriculum and Assessment: PR: RED 3012 and RED 3310; CR: EEC 3940. Methodologies for teaching and assessing young children in reading, writing, and language arts in the elementary grades. <i>Fall.</i>			Honors World Religions: PR: Permission of Honors. Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. Honors-level content. <i>Occasional.</i>		
RAT 3242	HPA-HP	2(2,0)	RED 4519	ED-TLP	3(3,1)	REL 3111	CAH-PHIL	3(3,0)
Oncologic Pathology: PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characteristics, histologic grading, staging and treatment. <i>Occasional.</i>			Diagnostic and Corrective Reading Strategies: PR: RED 3012 or C.I. and admission to Phase II. An investigation of the needs of individual learners in reading instruction. Organization and techniques for promoting optimum reading growth. Concurrent school experiences required. <i>Fall, Spring.</i>			Religion and Philosophy Through Film: PR: ENC 1102 and either PHI 2010 or REL 2300 or FIL 1000. Religious and philosophical themes encountered in contemporary film. It unites religion, philosophy and film by means of a critique of cultural productions of meaning, value and purpose. <i>Occasional.</i>		
RAT 3614	HPA-HP	2(2,0)	RED 5147	ED-TLP	3(3,0)	REL 3115	CAH-PHIL	3(3,0)
Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection. <i>Occasional.</i>			Developmental Reading: PR: EDG 4323. Principles, procedures, organization, and current practices in the elementary reading program. Materials and methods of instruction. <i>Fall, Spring.</i>			Religion, Spirituality, and Popular Music: PR: HUM 2230 or REL 2300. Contemporary spiritual sensibilities encountered at the intersection of religion, philosophy, and popular music. <i>Odd Fall.</i>		
RAT 4247	HPA-HP	3(3,0)	RED 5517	ED-TLP	3(3,1)	REL 3131	CAH-PHIL	3(3,0)
Radiation Oncology I: Methods of radiation therapy treatment of malignant conditions of the skin, oral cavity, pharynx, sinuses, thyroid, digestive and respiratory systems. <i>Occasional.</i>			Classroom Diagnosis and Development of Reading Proficiencies: PR: RED 5147 or equivalent. Classroom diagnosis and corrective teaching in reading; instructional materials. Case study required. <i>Even Fall, Spring.</i>			Religion in America: PR: REL 2300. Religious traditions in America, their relationship to politics, popular culture, media, and society. <i>Even Spring.</i>		
RAT 4248	HPA-HP	3(3,0)	REE 3043	BA-FIN	3(3,0)	REL 3340	CAH-PHIL	3(3,0)
Radiation Oncology II: Methods of treatment of malignant conditions of the nervous system, eye, reproductive system, urinary system, connective tissue, and lympho-reticular system. <i>Occasional.</i>			Fundamentals of Real Estate: PR: Junior standing. Application of basic tools of economics, finance, and marketing to solve private and public sector real estate problems. <i>Fall, Spring.</i>			Buddhist Thought: PR: HUM 2230 or REL 2300 or C.I. Teachings of Buddhism and their contemporary applications. <i>Odd Fall, Spring.</i>		
RAT 4618C	HPA-HP	4(3,3)	REE 3433	BA-FIN	3(3,0)	REL 3432	CAH-PHIL	3(3,0)
Radiation Therapy Physics II: PR: RAT 3614. Study of radiation protection techniques, design considerations, modes and characteristics of decay, handling of radionuclides and clinical dosimetry. <i>Occasional.</i>			Real Estate Law: PR: Junior standing. An analysis of real estate law with emphasis on Florida statutes and case law. <i>Fall, Spring.</i>			Roots of Western Mysticism: PR: HUM 3431, HUM 3435, HUM 3552, HUM 3553, HUM 4303, HUM 4554, PHH 3100, or PHH 3200. Ancient, medieval, and early modern European mysticism, and its influences on religious, philosophical, artistic, and scientific thought in the West. <i>Even Fall, Odd Spring.</i>		
RAT 4619C	HPA-HP	4(3,3)	REE 3614	BA-FIN	3(3,0)	REL 4110	CAH-PHIL	3(3,0)
Radiation Therapy Physics III: PR: RAT 4618C. Study of treatment planning principles and techniques, including multiple beam therapy, rotation therapy, arc therapy, and irregular field techniques. <i>Occasional.</i>			Environmental Issues for Real Estate: PR: REE 3043, REE 3433; open to majors or minors which require this course. Political, cultural, institutional and scientific mechanisms which shape environmental policy. The effects of hazard, risk and uncertainty in policy development. <i>Occasional.</i>			Religion and the Arts: PR: At least one of the following: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with an emphasis on contemporary society. <i>Occasional.</i>		
RAT 4804L	HPA-HP	5(0,20)	REE 4103	BA-FIN	3(3,0)	REL 4180	CAH-PHIL	3(3,0)
Clinical Education I: PR: RTE 3000, RTE 3111C, RTE 3528, RTE 3684C, RTE 3804, RTE 3457C, RTE 3549, or C.I. Supervised clinical practice in patient care and orientation to radiation therapy simulation, and treatment planning and delivery procedures. <i>Occasional.</i>			Real Estate Appraisal and Valuation: PR: FIN 3403. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis. <i>Occasional.</i>			Religion and Medicine: PR: Junior standing and REL 2300 or C.I. A comparative study of the approaches toward medicine and healing in different religious traditions, both in the US and abroad. <i>Occasional.</i>		
RAT 4814L	HPA-HP	6(0,24)	REE 4203	BA-FIN	3(3,0)	REL 4901	CAH-PHIL	1(1,0)
Clinical Education II: PR: RAT 4804L. Supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units. <i>Occasional.</i>			Commercial Real Estate Finance: PR: FIN 3403; open to majors or minors which require this course. The practice of commercial real estate finance; emphasis on lender and borrower decision making and secondary markets. <i>Occasional.</i>			Portfolio: PR: Final semester as Humanities/Religious Studies track major. Presentation of a representative sampling of a student's best undergraduate work, with appropriate revision, including a cover narrative indicating development of knowledge and skills in the subject area. Graded S/U. <i>Occasional.</i>		
RAT 4824L	HPA-HP	6(0,24)	REE 4204	BA-FIN	3(3,0)	REL 4910	CAH-PHIL	3(3,0)
Clinical Education III: PR: RAT 4814L. Continued supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units. <i>Occasional.</i>			Residential Real Estate Finance: PR: Fin 3403; open to majors or minors which require this course. Study of the practice of residential real estate finance; emphasis on lender and borrower decision making and secondary markets. <i>Fall, Spring.</i>			Senior Research Seminar: PR: Senior standing and Religion Studies track major. Capstone course on research, developing effective oral and written communication skills. <i>Occasional.</i>		
RED 3012	ED-TLP	3(3,0)	REE 4303	BA-FIN	3(3,0)	RET 3026C	HPA-HP	4(3,3)
Basic Foundations of Reading: PR: Junior standing or C.I. Principles, procedures, and current practices for teaching reading. Specific techniques and materials for word identification, content reading and comprehension. <i>Fall, Spring.</i>			Real Estate Investment Analysis: PR: FIN 3403. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis. <i>Fall, Spring.</i>			Introduction to Respiratory Care: PR: Admission to the professional upper-division Respiratory Therapy Program. Fundamental respiratory principles and practices will be studied. Introduction to the profession and basic methods are covered. Lecture and lab. <i>Fall.</i> M&S fee: \$45.00		
RED 3310	ED-ES	3(3,0)	REE 4732	BA-FIN	3(3,0)	RET 3174	HPA-HP	3(3,0)
Early Reading, Writing and Language Arts: PR: Admission to the Early Childhood Education Program. Emergent reading/writing processes during preschool, kindergarten, and first grade; methods for implementing integrated language arts curriculum; guiding developmental early childhood language experiences. <i>Occasional.</i>			Real Estate Development: PR: FIN 3403. The real estate development process, from the inception of a project through to lease-up, long-term financing, and final sale to the investment community. <i>Fall.</i>			Pediatric Respiratory Care: PR: RET 3026C. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS. <i>Spring.</i>		
RED 4043	ED-TLP	3(3,0)	REL 2300	CAH-PHIL	3(3,0)			
Content Reading in Kindergarten through Grade 12: PR: Admission to the teacher education program and junior or senior class standing. Content literacy in the K-12 school curriculum: principles, strategies, assessment, and promising practices. <i>Fall, Spring.</i>			World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. <i>Fall, Spring.</i>					

<p>RET 3264C HPA-HP 3(2,3) Mechanical Ventilation: PR: RET 3026C. Function and use of mechanical ventilators, patient evaluation methods. All forms of ventilatory support will be studied. Lecture and laboratory. <i>Occasional.</i></p>	<p>RET 4536 HPA-HP 3(3,0) Cardiopulmonary Rehabilitation: PR: RET 3026C & RET 3484C or C.I. Principles underlying the development, implementation, and management of a comprehensive cardiopulmonary rehabilitation program. <i>Spring.</i></p>	<p>RTE 3513C HPA-HP 3(2,3) Radiographic Procedures II: PR: RTE 3503C or C.I. Continuation of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones. <i>Spring.</i> M&S fee: \$45.00</p>
<p>RET 3483C HPA-HP 3(2,1) Respiratory Clinical Assessment: PR: RET 3026C or C.I. Demonstration of physical assessment techniques, critical thinking, chest radiology and other laboratory techniques, polysomnography and clinical documentation. Includes internet work. <i>Spring.</i></p>	<p>RET 4715 HPA-HP 3(3,0) Neonatal Medicine: PR: RET 3714C or C.I. Fetal development, prenatal physiology, gas transport in the fetus and newborn. Congenital abnormalities, infections, diseases of the newborn. Resuscitation of the neonate. <i>Fall.</i></p>	<p>RTE 3614 HPA-HP 2(2,0) Physics of Image Production: PR: College Physics II. Physics of diagnostic radiology, including radiation production, physical principles of generator operation, and characteristics of electromagnetic radiation. <i>Fall.</i></p>
<p>RET 3484C HPA-HP 4(3,3) Cardiopulmonary Physiology: PR: PCB 3703C. Normal ventilation, lung mechanics, pulmonary circulation, diffusion, and blood gases, with an emphasis toward diagnostic cardiology. <i>Fall.</i> M&S fee: \$18.00</p>	<p>RET 4876 HPA-HP 8(1,24) Clinical Practice III: PR: RET 3875. Care of patients with more complex diseases. Pulmonary function studies. Pediatric and neonatal critical care. Echo and cardiac catheterization. Emergency and trauma. <i>Spring.</i></p>	<p>RTE 3804 HPA-HP 4(0,16) Clinical Education I: PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment. <i>Spring.</i></p>
<p>RET 3874 HPA-HP 5(1,16) Clinical Practice I: PR: C.I. Basic equipment and patient care. IPPB therapy. Cleaning sterilization and maintenance procedures. Suction techniques. <i>Occasional.</i></p>	<p>RET 4934 HPA-HP 2(2,0) Selected Topics in Respiratory Therapy: PR: C.I. Current topics of adult critical care, as they apply to the advanced study of respiratory therapy. <i>Spring.</i></p>	<p>RTE 4202 HPA-HP 3(3,0) Methods in Radiology Management: Concepts of radiology, department management, including principles, personnel management, evaluation and improvement techniques, budgeting, financial considerations and legal aspects, and JCAH quality assurance specifications. <i>Occasional.</i></p>
<p>RET 3875 HPA-HP 8(1,24) Clinical Practice II: PR: C.I. Patient care with advanced respiratory equipment. Tracheostomy care. Introduction to cardiopulmonary resuscitation. Introduction to critical care units. Advanced life support techniques and equipment. <i>Fall.</i></p>	<p>RET 5910 HPA-HP 3(3,0) Research Methods in Cardiopulmonary Physiology: Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis. <i>Occasional.</i></p>	<p>RTE 4206 HPA-HP 3(3,0) Leadership in Radiological Sciences: PR: Senior level status in RS major or C.I. Study of the theories, principles and skills needed to function in a leadership position in Radiologic Sciences. <i>Spring.</i></p>
<p>RET 4034 HPA-HP 3(3,0) Problems in Patient Management: PR: RET 3484C. Problem-oriented approach to the treatment of chronic and acute respiratory disorders. Computer-based clinical simulations are utilized. Emphasis on patient centered care planning. <i>Fall.</i></p>	<p>RMI 3011 BA-FIN 3(3,0) Principles of Risk and Insurance: PR: FIN 3403. Emphasis is on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention. <i>Spring.</i></p>	<p>RTE 4209 HPA-HP 2(0,8) Radiological Administrative Practice: A directed practice in the management of a radiology department, with application of theory and methodology. <i>Occasional.</i></p>
<p>RET 4244 HPA-HP 3(3,0) Life Support Systems: PR: RET 3026C. Lecture-laboratory, measures supporting critically ill patients; intubation, airway maintenance, arterial and venous lines, post-operative care. Cardiac output determination, electrocardiography, intra-aortic balloon pumping covered. <i>Spring.</i></p>	<p>RTE 3000 HPA-HP 3(3,0) Introduction to Radiologic Sciences: PR: Admission to Radiologic Sciences program. Orientation to career field, radiation protection, principles and procedures of medical imaging and radiation therapy. <i>Fall.</i></p>	<p>RTE 4385 HPA-HP 1(1,0) Radiobiology: PR: RTE 3308. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated. <i>Fall.</i></p>
<p>RET 4284 HPA-HP 3(3,0) Cardiopulmonary Diagnostics I: PR: RET 4244. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing. <i>Fall.</i></p>	<p>RTE 3111C HPA-HP 2(1.5,1.5) Introduction to Patient Care: PR: Acceptance to the program. Provides the student with fundamentals of patient care methods related to radiography. <i>Fall.</i> M&S fee: \$10.00</p>	<p>RTE 4473 HPA-HP 3(3,0) Quality Improvement: PR: Registered technologist or Senior standing. The study of quality improvement and quality control from the perspective of radiology services. <i>Spring.</i></p>
<p>RET 4285 HPA-HP 3(3,0) Cardiopulmonary Diagnostics II: PR: RET 4244 and RET 4284. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, streptokinase use, and heart surgery. <i>Spring.</i></p>	<p>RTE 3116 HPA-HP 3(3,0) Advanced Patient Care: PR: RTE 3111C or C.I. Study of advanced patient care concepts and techniques associated with computed tomography, magnetic resonance imaging, mammography, pediatrics and interventional procedures. <i>Spring.</i></p>	<p>RTE 4563 HPA-HP 2(2,0) Special Radiographic Procedures: PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, cholangiography, hysterosalpingography, and bronchography. <i>Occasional.</i></p>
<p>RET 4414C HPA-HP 4(3,3) Pulmonary Function Studies: PR: RET 3026C. Detailed procedures and tests to provide information for diagnosis of pulmonary disease. Lecture-laboratory. <i>Occasional.</i> M&S fee: \$14.00</p>	<p>RTE 3308 HPA-HP 3(3,0) Medical Physics: PR: RTE 3684C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding. <i>Occasional.</i></p>	<p>RTE 4573 HPA-HP 3(3,0) Advanced Imaging Modalities: PR: RTE 3563 or C.I. A study of the physical principles and applications of computed tomography, digital imaging, interventional radiography, mammography, ultrasound, magnetic resonance imaging, and nuclear medicine. <i>Fall.</i></p>
<p>RET 4441 HPA-HP 4(3,3) Vascular Ultrasound: Study of application of ultrasound in the diagnosis of vascular diseases. Includes doppler and color flow doppler examination of arterial and venous systems. <i>Occasional.</i></p>	<p>RTE 3418C HPA-HP 3(2.5,1.5) Principles of Radiographic Exposure I: An introduction to the technical variables influencing radiographic and fluoroscopic image quality, including equipment considerations, prime exposure factors, image receptors, and accessory exposure devices. <i>Fall.</i> M&S fee: \$28.00</p>	<p>RTE 4574 HPA-HP 1(1,0) Computed Tomography Protocols: PR: Senior level status in Radiologic Sciences program. Examines the application of imaging techniques accomplished by multidetector row computed tomography acquisition. <i>Fall.</i></p>
<p>RET 4443 HPA-HP 4(3,3) Advanced Cardiac Ultrasound: PR: RET 4284 or C.I. Study of advanced applications of ultrasound in the diagnosis of cardiac abnormalities. Two-dimensional echo, conventional doppler, and color doppler covered. <i>Occasional.</i></p>	<p>RTE 3457C HPA-HP 3(2.5,1.5) Principles of Radiographic Exposure II: PR: RTE 3418C or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality. <i>Spring.</i> M&S fee: \$28.00</p>	<p>RTE 4579 HPA-HP 1(1,0) Magnetic Resonance Imaging Protocols: PR: Senior Level status in Radiologic Sciences Program. Provides overview of imaging protocols used for specific MRI procedures. Content includes patient screening, safety procedures, patient positioning, coil and accessory device selection and use. <i>Fall.</i></p>
<p>RET 4503 HPA-HP 3(3,0) Chest Medicine: PR: RET 3026C. Disease states treated medically in conjunction with one or more modalities of respiratory therapy. <i>Spring.</i></p>	<p>RTE 3503C HPA-HP 3(2,3) Radiographic Procedures I: PR: Admission to the program. Provides fundamental knowledge of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the chest, abdomen, routine contrast studies, and the upper extremity. <i>Fall.</i> M&S fee: \$45.00</p>	<p>RTE 4762 HPA-HP 3(3,0) Anatomy for the Medical Imager: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference. <i>Fall.</i></p>

UCF Courses and Descriptions

RTE 4782	HPA-HP	2(2,0)	RTV 3228C	COS-R/TV	4(3,1)	RTV 4271C	COS-R/TV	3(2,1)
Pathophysiology: PR: C.I. The study of radiologic science in the diagnosis and treatment of disease. <i>Spring.</i>			Studio Television Production: PR: RTV 3200 and RTV major - Production Specialization. Analog and digital television studio production including audio mixers, microphones, tape recorders, cameras, video switchers, lighting, and electronic graphics. Students should expect significant work in the RTV facility outside of class. <i>Odd Fall, Even Spring.</i> M&S fee: \$30.00			Radio Production and Programming: PR: RTV 3200 and RTV Major - Production or Broadcast Generalist Specialization. Study and production of current radio formats, the integration of digital resources, and their effects on today's radio listener. Students should expect significant work in the RTV lab facility outside of class. <i>Fall.</i>		
RTE 4814L	HPA-HP	5(0,20)	RTV 3234C	COS-R/TV	3(2,1)	RTV 4280C	COS-R/TV	3(2,1)
Clinical Education II: PR: RTE 3804. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the chest, abdomen, extremities and shoulder girdle. <i>Occasional.</i>			Broadcast Announcing and Performance: PR: RTV Major, Junior standing, and C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting. Students should expect significant work in the RTV facility outside of class. <i>Odd Fall, Odd Spring.</i> M&S fee: \$15.00			Webcasting I: PR: RTV Major and PR or CR: RTV 3283C. Presentation of broadcast material on the web. Integrates the distribution of radio, television, and web content. Students should expect significant work in the RTV lab facility outside of class. <i>Occasional.</i> M&S fee: \$15.00		
RTE 4824L	HPA-HP	6(0,24)	RTV 3260C	COS-R/TV	4(3,1)	RTV 4281C	COS-R/TV	3(2,1)
Clinical Education III: PR: RTE 4814L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography. <i>Fall.</i>			Single Camera Video Production and Editing: PR: RTV 3200 and RTV Major - Production Specialization or Broadcast Journalism Specialization. Technical and aesthetic requirements of analog and digital single-camera video production and editing, including techniques for electronic news gathering (ENG) and electronic field production (EFP). Students should expect significant work in the RTV facility outside of class. <i>Fall, Spring.</i> M&S fee: \$30.00			Webcasting II: PR: RTV 4280C and RTV Major. Production of digital media in conjunction with other RTV production activities to repurpose broadcast content for delivery on the web. Students should expect significant work in the RTV lab facility outside of class. <i>Occasional.</i> M&S fee: \$15.00		
RTE 4834	HPA-HP	4(0,16)	RTV 3263C	COS-R/TV	3(2,1)	RTV 4320C	COS-R/TV	4(1,3)
Clinical Education IV: PR: RTE 4824L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranium, facial bones, and special procedures. <i>Spring.</i>			Advanced Video Post-Production: PR: RTV 3260C and RTV Major - Production Specialization. Advanced post-production techniques for analog and digital video, including A/B roll time code editing, digital video effects, electronic graphics, and non-linear video editing systems. Students should expect significant work in the RTV facility outside of class. <i>Fall, Spring.</i> M&S fee: \$15.00			Television News: PR: RTV 3304 and RTV Major - Broadcast Journalism Specialization or C.I. Production of weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director. Students should expect significant work in the RTV lab facility outside of class. <i>Fall, Spring.</i> M&S fee: \$15.00		
RTE 4844	HPA-HP	4(0,16)	RTV 3283C	COS-R/TV	3(2,1)	RTV 4322C	COS-R/TV	3(2,1)
Clinical Education V: PR: RTE 4834. Supervised clinical practice on surgical and special procedure examinations. <i>Occasional.</i>			Production of Interactive Multimedia: PR: CGS 1060C; major status in RTV, Ad/PR, Journalism, Organizational or Interpersonal Communication. Practice and production of electronic interactive multimedia for the broadcast industry. Students should expect significant work in the RTV facility outside of class. <i>Odd Fall.</i> M&S fee: \$15.00			Advanced TV News: PR: RTV 4320C, RTV Majors only and C.I. Supervised broadcast news experience and/or practice in the weekly UCF news program. Students should expect significant work in the RTV lab facility outside of class. <i>Occasional.</i>		
RTE 4854	HPA-HP	2(0,8)	RTV 3301	COS-R/TV	3(3,0)	RTV 4403	COS-R/TV	3(3,0)
Advanced Clinical Practicum: PR: RTE 4824L. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonances imaging. <i>Fall, Spring.</i>			Electronic Journalism I: PR: RTV 2102 and RTV Major - Broadcast Journalism Specialization. Newswriting and newsgathering skills and strategies and their accompanying ethical considerations for analog and digital delivery of broadcast journalism. <i>Fall, Spring.</i>			Electronic Media, Technology, and Society: PR: or CR: RTV 3007. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media. <i>Fall, Spring.</i>		
RTE 4903	HPA-HP	2(0,8)	RTV 3304	COS-R/TV	3(3,0)	RTV 4503	COS-R/TV	3(3,0)
Directed Study in Radiologic Education: PR: EVT 3371 or EDG 4323 or C.I. Directed activity in classroom instruction in radiologic technology. <i>Occasional.</i>			Electronic Journalism II: PR: RTV 3301, RTV 3260C, and RTV Major - Broadcast Journalism Specialization. Newswriting and newsgathering strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages. <i>Fall, Spring.</i>			Sports Programming on Broadcast and Cable: PR: RTV 3007 or C.I. An examination of the factors that determine how sporting events are constructed for programming on broadcast stations and cable systems. <i>Occasional.</i>		
RTV 2102	COS-R/TV	3(3,0)	RTV 3942L	COS-R/TV	1-3(0,3-9)	RTV 4505	COS-R/TV	3(2,1)
Writing for the Electronic Media: PR: ENC 1102, RTV Major. Practical experience in writing for various electronic media including radio, television, corporate, and digital media. Scripting requirements, writing styles and creative applications. <i>Odd Fall, Even Spring.</i>			Practicum: PR: C.I., RTV Major, and either RTV 3210C, RTV 3228C, or RTV 3260C. Student will serve in some position of responsibility for UCF Weekly News or other RTV program. May be repeated for credit. Graded S/U. <i>Occasional.</i>			Program Issues for TV & Motion Pictures: PR: RTV 3007 or FIL 2400 or C.I. An examination of program development theories, strategies and issues in the television and motion picture industries. Students should expect significant work in the RTV lab facility outside of class. <i>Occasional.</i>		
RTV 3007	COS-R/TV	3(3,0)	RTV 4206C	COS-R/TV	3(2,1)	RTV 4700	COS-R/TV	3(3,0)
Development and Structure of Electronic Media and New Technology: PR: SPC 1600 or C.I. Nature of the media, the mechanics of operation of analog and digital systems, history, economics, programming, and internal and external controls. <i>Fall, Spring.</i>			Television Directing: PR: RTV 3228C, RTV 3260C, and RTV Major - Production Specialization. Preparation and direction of programs, using both digital and analog resources, with emphasis on dramatic value and composition. Students should expect significant work in the RTV facility outside of class. <i>Fall, Even Spring.</i> M&S fee: \$30.00			Regulation of Broadcasting: PR: RTV Majors only, RTV 3007. Federal, state, local and self-regulatory agencies and practices which govern electronic media. <i>Fall.</i>		
RTV 3101	COS-R/TV	3(1,2)	RTV 4211C	COS-R/TV	3(2,1)	RTV 4800	COS-R/TV	3(3,0)
Broadcast Copywriting: PR: RTV Majors only, Grammar Proficiency Examination and School Typing Exam. Preparation of written public service and commercial copy for radio and television. <i>Occasional.</i>			Audio Production II: PR: RTV 3210C and RTV Major. Creating the sound design and multiple track recording in the analog and digital domain. Students should expect significant work in the RTV lab facility outside of class. <i>Occasional.</i> M&S fee: \$15.00			Broadcast Management: PR: RTV Majors only, RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels. <i>Odd Spring.</i>		
RTV 3200	COS-R/TV	3(3,0)				RUS 1120	CAH-LANG	4(4,1)
Production Fundamentals and Aesthetics of Electronic Media: PR: or CR: RTV 3007 or C.I. Technical and creative concepts of analog and digital electronic media production for radio, television, and multimedia delivery systems. <i>Fall, Odd Spring.</i>						Elementary Russian Language and Civilization I: Introduces the student to Russian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. <i>Occasional.</i>		
RTV 3210C	COS-R/TV	3(2,1)				RUS 1121	CAH-LANG	4(4,1)
Audio Production I: PR: RTV 3200 and RTV Major - Production Specialization. Audio production theory and recording techniques utilizing various microphone types, and digital non-linear audio computer-based editing equipment. Students should expect significant work in the RTV facility outside of class. <i>Fall, Spring.</i> M&S fee: \$30.00						Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120. <i>Occasional.</i>		
RTV 3223C	COS-R/TV	3(2,1)						
Lighting for Video: PR: RTV 3228C or RTV 3260C, and RTV Major - Production Specialization. Basic lighting techniques for both studio and location, single and multiple-camera video production. Students should expect significant work in the RTV facility outside of class. <i>Odd Fall, Spring.</i> M&S fee: \$30.00								

RUS 2200	CAH-LANG	3(3,1)	SLS 2261C	ED-ES	2(2,1)	SOW 3203	HPA-SOWK	3(3,0)
Intermediate Russian Language and Civilization I: PR: RUS 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Occasional.</i>			Student Organization Leadership: Application of leadership and organizational development paradigms, theories, and approaches for emerging and established student leaders. <i>Occasional.</i>			Social Work & Community Resources: PR: Jr. Standing or CI, open to non-majors. Generalist social work practice, including the structure of American social welfare, values and ethics of social work and community resources. <i>Fall.</i>		
RUS 2201	CAH-LANG	3(3,1)	SLS 2311C	BCBS-M&M	2(2,1)	SOW 3300	HPA-SOWK	3(2,1)
Intermediate Russian Language and Civilization II: PR: RUS 2200 or equivalent. Continuation of RUS 2200, with emphasis on Russian civilization. <i>Occasional.</i>			Overview of Select Medical Careers: An overview of the pre-health professions process for careers in medicine, dentistry, veterinary, optometry, pharmacy, podiatry, and chiropractic. <i>Spring.</i>			Practice I: PR: Admin. to Social Work Program. Generalist Practice in Social Work: Study of social work functions, knowledge, values, and skills. Development of ability to use a generalist model of practice. <i>Fall.</i>		
RUS 2210	CAH-LANG	3(3,0)	SLS 2715	ED-ES	2(2,0)	SOW 3352	HPA-SOWK	3(1,2)
Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking. <i>Occasional.</i>			Peer Educator Leadership: PR: Orientation Team Members or C. I. Training peer educators in helping strategies applicable to their peer leadership positions. <i>Fall, Spring.</i>			Practice II: PR: SOW 3300. Interpersonal Skills in Social Work: PR or CR: SOW 3300. Study and practice of interviewing, group leadership, written communication, and oral presentations, in consensual as well as conflictual contexts of social work. <i>Spring.</i>		
RUS 3240	CAH-LANG	3(3,0)	SOP 2772	COS-PSYCH	3(3,0)	SOW 3401	HPA-SOWK	3(3,0)
Russian Conversation: PR: RUS 2201 or equivalent. Development of skills in conversation and comprehension through practice. <i>Occasional.</i>			Sexual Behavior: PR: PSY 2012. Physiological, social, and clinical aspects of human sexuality. <i>Fall.</i>			Social Work Research: PR: STA 2014C or STA 2023. Study of quantitative and qualitative methods of building knowledge for social work and the ethical use of research in professional practice. <i>Spring.</i>		
RUS 3760	CAH-LANG	3(3,0)	SOP 3004	COS-PSYCH	3(3,0)	SOW 3620	HPA-SOWK	3(3,0)
Advanced Russian Oral Communication: PR: RUS 2201 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. <i>Occasional.</i>			Social Psychology: PR: PSY 2012. Effects of social situations and social variables on the behavior of individuals. <i>Fall, Spring.</i>			Social Work with Diverse Populations: PR: SOW 3203 and SOW 3104; PR or CR: SOW 3300. Social work intervention and skill development needed to serve oppressed groups. <i>Spring.</i>		
SCE 3310	ED-TLP	3(3,0)	SOP 3723	COS-PSYCH	3(3,0)	SOW 4232	HPA-SOWK	3(3,0)
Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures. <i>Fall, Spring.</i> M&S fee: \$5.25			Cross Cultural Psychology: PR: PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups. <i>Odd Spring.</i>			Social Welfare Policies and Issues: PR: SOW 3203 or equivalent. Development of skills needed to critically analyze social welfare goals, structures, and practices. Proposes improvements in societal resource systems. <i>Fall.</i>		
SCE 4304	ED-CFCS	3(3,0)	SOP 3724	COS-PSYCH	3(3,0)	SOW 4341	HPA-SOWK	3(1,2)
Teaching Science and Technology to Young Children: Provides the knowledge and skills needed to plan and implement a discovery science/design technology program for young children in an integrated, interactive curriculum. <i>Fall.</i>			The Psychology of Racial Prejudice: PR: PSY 2012. Examination of literature relating to prejudice toward ethnic groups; effects of racism on individuals, development and maintenance of prejudice, and possible ways to reduce prejudice. <i>Even Spring.</i>			Micro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving with individuals, families and supportive and remedial groups. <i>Fall.</i>		
SCE 4360	ED-TLP	4(3,2)	SOP 3742	COS-PSYCH	3(3,0)	SOW 4343	HPA-SOWK	3(1,2)
Science Instructional Analysis: PR: EDG 4323 or C.I. Course objectives for a school curriculum and methods and materials for the middle grades and high school. <i>Fall, Spring.</i> M&S fee: \$8.00			Psychology of Women: PR: PSY 2012. Examination of the psychological impact of changing sex roles on women in modern society. Topics include child rearing, working women, and sex differences in personality and cognition. <i>Fall, Spring.</i>			Macro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving to obtain and improve social welfare resources within organizations and communities. <i>Fall.</i>		
SCE 5315	ED-TLP	3(3,0)	SOP 3751	COS-PSYCH	3(3,0)	SOW 4431	HPA-SOWK	3(2,1)
Methods in Elementary School Science: PR: EDG 4323. Organization of instruction in elementary school science including methods, evaluation, materials, strategies, and current practices. <i>Spring.</i>			Legal Aspects of Psychology: PR: PSY 2012 or SYG 2000; PPE 3003 or C.I. Ethical and legal dilemmas and issues in the practice of psychology. <i>Fall.</i>			Evaluating Social Work Practice and Service Programs: PR: SOW 3401, SOW 3300. The study of systematic data collection and of measurement of change in individuals, families, groups, programs, and communities. <i>Occasional.</i>		
SCE 5325	ED-TLP	3(3,0)	SOP 3784	COS-PSYCH	3(3,0)	SOW 4510	HPA-SOWK	9(0,28)
Teaching Middle School Science: PR: EDG 6236 or C.I. This course will provide experiences that promote effective science teaching in grades 5-9 including interdisciplinary teaming, technology use, ESOL, and inquiry in science. <i>Occasional.</i>			Psychology of Diversity: PR: PSY 2012. A review of the contributions of psychology to the understanding of human diversity related to ethnic background, gender, sexuality, and belief systems. <i>Occasional.</i>			Field Education: PR: Completion of required courses in major: GPA 2.5 in major. CR: SOW 4522. Supervised learning experiences in agencies that relate social work practice to theory, requiring 420 clock hours in the field. Graded S/U. <i>Spring.</i>		
SCE 5337	ED-TLP	3(3,0)	SOP 5059	COS-PSYCH	3(3,0)	SOW 4522	HPA-SOWK	3(2,1)
Issues and Methods in Secondary School Science: PR: EDG 6236 or C.I. 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. <i>Fall, Spring.</i>			Advanced Social Psychology: PR: SOP 3004, graduate status or senior standing, or C.I. The major findings and theories in social psychology including an in-depth review of relevant research. <i>Occasional.</i>			Field Education Seminar: PR: Completion of required courses in major: CR: SOW 4510. Weekly seminar to examine the field experience and to relate theory with practice situations. <i>Spring.</i>		
SCE 5836	ED-TLP	3(3,0)	SOW 2020	HPA-SOWK	3(3,0)	SOW 4602	HPA-SOWK	3(3,0)
Space Science for Educators: PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum. <i>Occasional.</i>			Introduction to Social Services: Introduction to social services, with emphasis on the role of the professional social worker and current career opportunities. <i>Fall.</i>			Social Work in Health Settings: PR: SOW 3300 and SOW 3104 or C.I. Study of social work roles, interventions, and issues related to helping patients in health settings. <i>Fall.</i>		
SLS 1501	ED-ES	3(3,0)	SOW 3104	HPA-SOWK	3(3,0)	SOW 4645	HPA-SOWK	3(3,0)
Strategies for Success in College: PR: First Time in College (FTIC) standing or C.I. Development of life-skills necessary for the contemporary student to appropriately adjust to college requirements that lead to self-mastery and the total concept of lifetime wellness. <i>Fall, Spring.</i>			Assessing I: Human Development: Skill development in assessing "person-in-environment" throughout life cycle. Study interaction of bio-psychosocial, cultural, and systemic influences on human functioning. Open to non-majors and pending social work majors. <i>Fall.</i>			Social Services for the Elderly: PR: SOW 3300, SOW 3104, or Gerontology Certificate Major or C.I. Development of interventive skills for obtaining, providing, and improving social services in behalf of elderly persons and their families. <i>Fall.</i>		
			SOW 3111	HPA-SOWK	3(3,0)			
			Assessing II: Human Systems: PR: SOW 3104. Development of skills in assessing families, groups, organizations, and communities, their impact on human functioning, and their potential for providing social support. <i>Spring.</i>					

UCF Courses and Descriptions

SOW 4650	HPA-SOWK	3(3,0)	SOW 5306	HPA-SOWK	3(3,0)	SOW 5566	HPA-SOWK	2(2,0)
<p>Child Abuse: Treatment and Prevention: PR: SOW 3300 and Admission to BSW program or C.I. The social worker's role and interventions with victims of child abuse and their family members. <i>Spring.</i></p>			<p>Social Work Practice II: Intervention Approaches: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs. <i>Spring.</i></p>			<p>Part-Time MSW Generalist Field Education and Seminar II: PR: SOW 5565; CR: SOW 5306. Field Education for part-time MSW generalist students; includes seminar and supervised practice of social work in an agency for 180 clock hours. Graded S/U. <i>Occasional.</i></p>		
SOW 4654	HPA-SOWK	3(3,0)	SOW 5355	HPA-SOWK	3(3,0)	SOW 5567	HPA-SOWK	2(2,0)
<p>Children's Services: PR: or CR: SOW 3104. Study of societal responses to children's needs. Development of skills for preventing family breakdown, placing children in alternative care, and reuniting children with their families. <i>Fall, Spring.</i></p>			<p>Studies in Social Work Practice: PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit. <i>Occasional.</i></p>			<p>Part-Time MSW Generalist Field Education and Seminar III: PR: SOW 5566. Field Education for part-time MSW generalist students; includes seminar and supervised practice of social work in an agency for 140 clock hours. Graded S/U. <i>Occasional.</i></p>		
SOW 4673	HPA-SOWK	3(3,0)	SOW 5387	HPA-SOWK	3(3,0)	SOW 5603	HPA-SOWK	3(3,0)
<p>Social Work Practice: The Gay and Lesbian Experience: PR: SOW 3104 or C.I. Sexual orientation and cultural diversity, policies and resources affecting gay & lesbian people, community based therapeutic and preventive interventions with gay & lesbian clients. <i>Even Spring.</i></p>			<p>nonprofit Resource Development: PR: Admission to certificate program or C.I. Resource Development in nonprofit organizations, including board development and leadership, volunteer program development, staff development, grant funding, fundraising, marketing, and government contract development and management. <i>Occasional.</i></p>			<p>Social Work in Health Settings: PR: Graduate standing or C.I. Study of social work roles, interventions, and issues related to helping clients in health settings. <i>Spring.</i></p>		
SOW 4705	HPA-SOWK	3(3,0)	SOW 5404	HPA-SOWK	3(3,0)	SOW 5604	HPA-SOWK	3(3,0)
<p>Prevention and Treatment of Adolescent Substance Abuse: PR: Junior Standing. An in-depth review of prevention, intervention, and treatment, recovery and relapse issues and public policies regarding adolescents with substance abuse problems. <i>Even Fall, Spring.</i></p>			<p>Social Work Research: Study of group research designs in social work; quantitative analysis; and related ethical issues. <i>Fall.</i></p>			<p>Medications in Social Work Practice: PR: graduate standing, pos-bac status, senior in SW program or C.I. The study of the effects that psychotropic medications can have within the counseling/helping relationship. <i>Spring.</i></p>		
SOW 4706	HPA-SOWK	3(3,0)	SOW 5432	HPA-SOWK	3(3,0)	SOW 5624	HPA-SOWK	3(3,0)
<p>Intervention with Substance Abusers: PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances. <i>Fall, Even Spring.</i></p>			<p>Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities. <i>Occasional.</i></p>			<p>Social Work Practice in Mexican Culture: PR: C.I. The practice of social work in Mexican culture through cultural immersion, seminars, field visits and language instruction. <i>Occasional.</i></p>		
SOW 4730	HPA-SOWK	3(3,0)	SOW 5532	HPA-SOWK	2(2,0)	SOW 5625	HPA-SOWK	3(3,0)
<p>Documentation in Social Work Practice: PR: SOW 3300 and SOW 3352. For Social Work majors only. Development of documentation skills for the delivery of social work services in various agency settings. <i>Fall.</i></p>			<p>Generalist Field Education I: PR: Admission to MSW Prog/. Supervised practice of social work in an agency for 224 clock hours. Graded S/U. <i>Fall, Even Spring.</i></p>			<p>Social Work with Women: Alternative approaches to the treatment of women in the urban setting. <i>Occasional.</i></p>		
SOW 4754	HPA-SOWK	3(3,0)	SOW 5533	HPA-SOWK	2(2,0)	SOW 5635	HPA-SOWK	3(3,0)
<p>Forensic Social Work Theory and Practice: PR: SOW 3203 or C.I. The role of social workers within the courts and criminal justice system. <i>Occasional.</i></p>			<p>Generalist Field Education II: PR: MSW. Continuation of SOW 5532 Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U. <i>Odd Fall, Spring.</i></p>			<p>Social Work Practice in Schools: PR: Social Work Graduate standing or C.I. Study of knowledge, skills and abilities necessary for competent practice with students, their teachers, families, schools and communities. <i>Even Spring.</i></p>		
SOW 5105	HPA-SOWK	3(3,0)	SOW 5534	HPA-SOWK	1(1,0)	SOW 5642	HPA-SOWK	3(3,0)
<p>Human Behavior and Social Environment I: Individual: PR: Admission to MSW program. Study of human development and psychosocial functioning of individuals at various life stages with particular attention to implications of human diversity. <i>Fall.</i></p>			<p>Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOW 5532. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. <i>Fall.</i></p>			<p>Aging in Social Situations: PR: Admission to MSW program or Gerontology Certificate Program or C.I. Knowledge about elderly in social situations or environmental context. <i>Occasional.</i></p>		
SOW 5106	HPA-SOWK	3(3,0)	SOW 5538	HPA-SOWK	3(3,0)	SOW 5644	HPA-SOWK	3(3,0)
<p>Human Behavior and Social Environment II: Social Systems: Study of the patterns and dynamics of families, groups, organizations, and communities from a social work and a systems perspective. <i>Spring.</i></p>			<p>Full-Time MSW Generalist Field Education and Seminar I: PR: Graduate standing or C.I.; CR: SOW 5305. Field education for full-time MSW generalist students; includes seminar and supervised practice of social work in an agency for 250 clock hours. Graded S/U. <i>Occasional.</i></p>			<p>Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certification program or MSW program or C.I. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations. <i>Even Spring.</i></p>		
SOW 5109	HPA-SOWK	3(3,0)	SOW 5539	HPA-SOWK	3(3,0)	SOW 5652	HPA-SOWK	3(3,0)
<p>Violence Against Women: A Global Perspective: PR: Graduate status or C.I. An introduction to the types of violence that impact women from a global perspective. Community, political, and economic issues that support violence against women will be discussed by country, ethnic group(s) within countries, and religious principles. <i>Odd Spring.</i></p>			<p>Full-Time MSW Generalist Field Education and Seminar II: PR: SOW 5538; CR: SOW 5306. Field education for full-time MSW generalist students; includes seminar and supervised practice of social work in an agency for 250 clock hours. Graded S/U. <i>Occasional.</i></p>			<p>Children Services in Social Work: PR: Graduate standing. Study of societal responses to children's needs. Development of skills for preventing family breakdown, placing children in alternative care, and reuniting children with their families. <i>Even Spring.</i></p>		
SOW 5132	HPA-SOWK	3(3,0)	SOW 5546	HPA-SOWK	1(1,0)	SOW 5655	HPA-SOWK	3(3,0)
<p>Diverse Client Populations: Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations. <i>Spring.</i></p>			<p>Generalist Field Education Integrative Seminar II: PR: Admission to MSW program. CR: Generalist Field Education II. Continuation of generalist field education integrative seminar 1 to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. <i>Spring.</i></p>			<p>Child Abuse: Treatment and Prevention: The social worker's role and interventions with victims of child abuse and their family members. <i>Spring.</i></p>		
SOW 5235	HPA-SOWK	3(3,0)	SOW 5565	HPA-SOWK	2(2,0)	SOW 5662	HPA-SOWK	3(3,0)
<p>Social Welfare Policies and Services: Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services. <i>Fall.</i></p>			<p>Part-Time MSW Generalist Field Education and Seminar I: PR: SOW 5305; CR SOW 5306. Field education for part-time MSW generalist students; includes seminar and supervised practice of social work in an agency for 180 clock hours. Graded S/U. <i>Occasional.</i></p>			<p>Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance. <i>Occasional.</i></p>		
SOW 5305	HPA-SOWK	3(3,0)				SOW 5670	HPA-SOWK	3(3,0)
<p>Social Work Practice I: Generalist Practice: Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice. <i>Fall.</i></p>						<p>Gay and Lesbian Experience in American Society: PR: seniors or graduate status. Sexual orientation in a cultural context; resources and policies affecting gay and lesbian people; and professional considerations in interventions with and for gay and lesbian clients. <i>Occasional.</i></p>		

SOW 5712 HPA-SOWK 3(3,0)
Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances. *Odd Fall, Spring.*

SOW 5713 HPA-SOWK 3(3,0)
Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An indepth review of prevention, intervention and treatment of Adolescent Substance Abuse. *Even Spring.*

SOW 5735 HPA-SOWK 3(3,0)
Documentation Skills for Helping Professionals: PR: MSW Social Work Students, C/I. Study of documentation skills and record keeping for helping professionals. *Occasional.*

SOW 5756 HPA-SOWK 3(3,0)
Introduction to Forensic Social Work Theory and Practice: PR: Graduate standing or C.I. Course develops the understanding of the role of social workers within the course and criminal justice system. *Occasional.*

SOW 5846 HPA-SOWK 3(3,0)
Spirituality in Professional Counseling: PR: graduate standing, post-bac status, seniors, or C.I. Examination of spirituality as it relates to professional counseling. *Odd Spring.*

SPA 2612 HPA-COM SC&DIS 4(4,0)
Introduction to American Sign Language: Development of ASL vocabulary and grammar. Deaf culture, literature, research examined. *Fall, Spring.*

SPA 2613 HPA-COM SC&DIS 4(4,0)
Intermediate American Sign Language: PR: SPA 2612. Expansion of ASL vocabulary with increased development of knowledge concerning Deaf culture. *Fall, Spring.*

SPA 2631 HPA-COM SC&DIS 3(3,0)
Issues of Deafness: PR: C.I. The impact of deafness on individual, family and social problems in the deaf community and culture, including historical and changing attitudes toward persons and disabilities. *Occasional.*

SPA 3002 HPA-COM SC&DIS 3(3,0)
Introduction to Communication Disorders: PR: PSY 2012 or SYG 2000. Etiology, symptoms, and methods of diagnosing and treating communication disorders. For beginning and prospective majors in Communication Sciences and Disorders. *Occasional.*

SPA 3011 HPA-COM SC&DIS 3(3,0)
Speech Science I: Production: PR: SPA 3112. CR: SPA 3011L. Study of how speech is produced, how it is transformed into an acoustic signal, and how that acoustic signal is measured. *Fall, Spring.*

SPA 3011L HPA-COM SC&DIS 1(0,1)
Speech Production lab: PR: SPA 3112. CR: SPA 3011. Physiological and acoustic measurement of speech production Graded S/U. *Fall, Spring.*

SPA 3101 HPA-COM SC&DIS 3(3,0)
Physiological Bases of Speech and Hearing: PR: or CR: SPA 3471. An introduction to the anatomical, physiological, and physical elements underlying the communication process. *Fall, Spring.*

SPA 3104 HPA-COM SC&DIS 3(3,0)
Neural Bases of Communication: PR: or CR: SPA 3471. Structures and functions of the nervous system involved in communication and its disorders. *Fall, Spring.*

SPA 3112 HPA-COM SC&DIS 3(3,0)
Basic Phonetics: CR: SPA 3112L. Physiological descriptions and visual notation of standard speech patterns and regional dialects. *Fall, Spring.*

SPA 3112L HPA-COM SC&DIS 1(0,1)
Basic Phonetics Lab: CR: SPA 3112. Practice in the transcription of normal and deviant speech samples. Graded S/U. *Fall, Spring.*

SPA 3123 HPA-COM SC&DIS 3(3,0)
Speech Science II: Perception: PR: SPA 3112, SPA 3011. CR: SPA 3123L. How the perception of human speech differs from that of other auditory signals. *Fall, Spring.*

SPA 3123L HPA-COM SC&DIS 1(0,1)
Speech Perception Lab: CR: SPA 3123. Laboratory techniques used in investigating human speech perception. Graded S/U. *Fall, Spring.*

SPA 3471 HPA-COM SC&DIS 3(3,0)
Communication Disorders in Literature and Media: PR: PSY 2012 or SYG 2000. Exploration of communication disorders in literature and media, emphasizing psychosocial, academic, vocational, and familial challenges as well as society's perceptions of individuals with communication disorders. *Fall, Spring.*

SPA 3472 HPA-COM SC&DIS 3(3,0)
Guidance of Young Children with Communication Disorders: PR: SPA 3471. Social/emotional and behavioral difficulties of children with communication disorders; positive child guidance and behavioral management strategies for clinicians and parents. *Fall, Spring.*

SPA 3621 HPA-COM SC&DIS 3(3,0)
Introduction to Signed English and Culture of the Deaf: Vocabulary and grammar through introductory level. Conceptual basis of ASL discussed. *Occasional.*

SPA 3632 HPA-COM SC&DIS 3(3,0)
Communication Disorders in the Deaf and Hard of Hearing Population.: PR: SPA 2631 or C.I. Speech, language, and hearing problems in the D/HH population, including etiology, pathology, and management of hearing disorders. *Occasional.*

SPA 4032 HPA-COM SC&DIS 3(3,0)
Audiology: PR: SPA 3101. Physics of sound, anatomy of hearing mechanism, pure tone audiometry, hearing aids, problems of the deaf and hard of hearing. Clinical skills development required. *Fall, Spring.*

SPA 4056C HPA-COM SC&DIS 5(3,2)
Clinical Methods in Communication Disorders: PR: SPA 4476 or SPA 4400. Principles and techniques of case management with emphasis on designing individualized treatment programs for individuals with communication disorders. Students will complete 25 observation hours. *Fall, Spring.*

SPA 4201 HPA-COM SC&DIS 3(3,0)
Articulation And Phonological Disorders: PR: SPA 3002, SPA 3112. The etiology, assessment, and management of articulation and phonological disorders, including those associated with structural variations and neuromotor disorders. *Occasional.* M&S fee: \$15.00

SPA 4241 HPA-COM SC&DIS 3(3,0)
Genetic Aspects of Communication Disorders: PR: BSC 2010C, Junior or senior standing. Theoretical framework for understanding human genetics and the genetic aspects of communication and feeding disorders. *Spring.*

SPA 4321 HPA-COM SC&DIS 3(3,0)
Audiologic Rehabilitation: PR: SPA 3011, SPA 3123, and SPA 4032. Principles and procedures in the use of residual hearing, auditory training, speech reading, and the use of hearing aids. *Fall, Spring.*

SPA 4400 HPA-COM SC&DIS 3(3,0)
Language Disorders Across the Life Span: PR: LIN 3717. Etiology, assessment, and management of language disorders in children, adolescents, and adults, including those associated with autism, traumatic brain injury, learning disabilities, and dementia. *Fall, Spring.*

SPA 4476 HPA-COM SC&DIS 3(3,0)
Speech Disorders Across the Lifespan: PR: SPA 3471, SPA 3101, and SPA 3112. Causes and characteristics of speech and swallowing disorders in children and adults, including those affecting articulation, phonation, resonance, fluency, and feeding and swallowing. *Fall, Spring.*

SPA 4478 HPA-COM SC&DIS 3(3,0)
Multicultural Aspects of Communication Disorders & Differences: PR: LIN 3716. Cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native American. *Fall, Spring.*

SPA 4501L HPA-COM SC&DIS 3(0,3)
Undergraduate Clinical Practicum: PR: SPA 4056C; either SPA 4400 or SPA 4476, and Senior Status. Students must apply and be invited to enroll in practicum. Supervised clinical practicum for select undergraduate students in the management of language or articulation disorders. *Fall, Spring.* M&S fee: \$45.00

SPA 4555 HPA-COM SC&DIS 3(3,0)
Counseling in Communicative Disorders: PR: SPA 4056C. Practical interviewing and counseling in the area of Communicative Disorders. *Spring.*

SPA 4580 HPA-COM SC&DIS 3(3,0)
Augmentative and Alternative Communication Systems: PR: LIN 3717 or C.I. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. *Occasional.*

SPA 4614C HPA-COM SC&DIS 4(3,1)
American Sign Language III: PR: SPA 2613. Conversation. Emphasis on refining fluency receptively and expressively. Practicum with the deaf community. *Occasional.*

SPA 4615 HPA-COM SC&DIS 4(4,0)
American Sign Language IV: PR: SPA 4614C or consent of instructor. Advanced study in complex grammar, facial expression, metaphorical and idiomatic vocabulary, emphasizing production of non-voiced, conversational, spontaneous signed sentences, "reading" signed phrases and sentences. *Occasional.*

SPA 4617 HPA-COM SC&DIS 3(3,0)
Structure of American Sign Language: PR: SPA 2612 and SPA 2613 or C.I. Study of phonologic, syntactic, semantic, and discourse structure of ASL, including an emphasis on the biological basis of language and communication. *Occasional.*

SPA 4626 HPA-COM SC&DIS 3(3,0)
Fingerspelling: PR: SPA 2612 and SPA 2613 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels. *Occasional.*

SPA 4628 HPA-COM SC&DIS 3(3,0)
Literature of Signed Languages: PR: SPA 2631. Overview of literature produced by Deaf communities across the world, with emphasis on the American Deaf Community. Genres include poetry, narrative, historical and cultural prose. *Occasional.*

SPA 4634 HPA-COM SC&DIS 3(3,0)
Educational Implications of Deafness: PR: SPA 2631. Impact of deafness on the educational process. The impact of deafness on the individual, their family, and the classroom will be discussed. *Occasional.*

SPA 4652 HPA-COM SC&DIS 3(3,0)
Ethics of Interpreting Sign Language: PR: SPA 2612, SPA 2613, SPA 4614C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings. *Occasional.*

UCF Courses and Descriptions

SPA 4660C	HPA-COM SC&DIS	4(3,1)	SPB 4104	BA-BUS	3(3,0)	SPC 3602	COS-COMM	3(1,2)
Interactive Interpreting I: PR: SPA 2612, SPA 2613 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter's role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations. <i>Occasional.</i>			Intercollegiate Sport Industry: PR: SPB 3003. The structure, evolution and governance of intercollegiate sport management and a framework for sound business decision making. <i>Occasional.</i>			Advanced Public Speaking: PR: SPC 1600C or C.I. Advanced training in selecting and organizing materials for various types of speeches. Practice in thinking and speaking before audiences. <i>Occasional.</i>		
SPA 4662C	HPA-COM SC&DIS	4(3,1)	SPB 4204	BA-BUS	3(3,0)	SPC 4331	COS-COMM	3(3,0)
Interactive Interpreting II: PR: SPA 4660C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL. <i>Occasional.</i>			Professional Sport Industry: PR: SPB 3003. The structure, evolution and governance of professional sport management and a framework for sound business decision making. <i>Occasional.</i>			Nonverbal Communication: PR: COM 3311. Review of current behavioral research in such areas as proxemics, kinesics, physical characteristics, tactile communication, and paralanguage. Lectures are supplemented by frequent nonverbal exercises. <i>Fall, Spring.</i>		
SPA 4803	HPA-COM SC&DIS	3(3,0)	SPB 4304	BA-BUS	3(3,0)	SPC 4426	COS-COMM	3(3,0)
Research Methods in Communication Sciences and Disorders: PR: STA 2014C or STA 2023. Approaches, methods, and techniques of research in Communication Sciences and Disorders are considered through lecture, discussion, and group participation. <i>Fall, Spring.</i>			Sports Event and Facility Management: PR: SPB 3003. The principles of facility and event management in sport business and their applications in professional, collegiate, and Olympic sport. <i>Occasional.</i>			Group Dynamics: PR: COM 3311. Human behavior in group situations. <i>Fall, Even Spring.</i>		
SPA 4948	HPA-COM SC&DIS	3(0,3)	SPB 4404	BA-BUS	3(3,0)	SPC 4540	COS-COMM	3(3,0)
Community Internship: PR: SPA 4056C and Senior Status. Supervised interaction and planned activities with individuals experiencing communication disorders in community settings, including Head Start, public schools, clinics, skilled nursing and assisted living facilities. <i>Fall, Spring.</i>			Sport Business Law: PR: SPB 3003. The legal framework for sport business management and its applications in professional, collegiate, and Olympic sport. <i>Occasional.</i>			Attitudes and Communication: PR: COM 3311. A survey of the immediate and direct ways in which persuasive communications and social groups come to influence attitudes. <i>Fall, Spring.</i>		
SPA 5473	HPA-COM SC&DIS	3(3,0)	SPB 4704	BA-BUS	3(3,0)	SPM 3130	ED-TLP	3(3,0)
Multicultural Aspects of Communication Differences and Disorders: PR: Graduate standing. Introduction to cultural and linguistic diversity among individuals with communication differences and disorders. Special emphasis on African, Hispanic, Asian, and Native-American cultures. <i>Occasional.</i>			Sport Business Strategy: PR: SPB 3003. The skills and knowledge applicable to the process of building and sustaining excellent sport organizations. <i>Occasional.</i>			Aquatic Management: PR: Admission to B.S. in Sports and Fitness program or C.I. Requisite knowledge for developing and operating aquatics programs safely and effectively. <i>Fall, Spring.</i>		
SPA 5554	HPA-COM SC&DIS	3(3,0)	SPB 4804	BA-BUS	3(3,0)	SPM 3204	ED-TLP	3(3,0)
Counseling in Communicative Disorders: PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families. <i>Spring.</i>			Sport Business and Media: PR: SPB 3003. The structure and evolution of the interrelationship between sport and media and their business implications. <i>Occasional.</i>			Sports and Ethics: PR: Junior standing or C.I. An exploration into ethics and its influence on sports. <i>Fall, Spring.</i>		
SPA 5559	HPA-COM SC&DIS	3(3,0)	SPC 1016	COS-COMM	3(3,0)	SPM 3415	ED-TLP	3(3,0)
Augmentative and Alternative Communication Systems: PR: Senior status or C.I. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. <i>Fall, Spring.</i>			Fundamentals of Technical Presentations: Communication theory and its application to preparing and delivering technical information in public speaking situations. <i>Fall, Spring.</i>			Public Relations in Sports and Fitness: PR: Admission to program or C.I. Functions and responsibilities of a public relations professional or department and the interaction with the public and media representatives with specific application to sports and fitness professionals. <i>Fall.</i>		
SPA 5564	HPA-COM SC&DIS	3(3,0)	SPC 1016H	COS-COMM	3(3,0)	SPM 3504	ED-TLP	3(3,0)
Aging and Communication: PR: Senior status or C.I. Study of the changes in communication with normal aging, focusing on assessment and management of older individuals with communication disorders. <i>Occasional.</i>			Honors Fundamentals of Technical Presentation: PR: Permission of Honors. Communication theory and its application to preparing and delivering technical information in public speaking situations. With honors-level content. <i>Occasional.</i>			Fiscal and Facilities: Issues in Sports and Fitness: PR: Admission to program or C.I. Design, maintenance, and operation of sports and fitness facilities with a specific focus on fiscal management. <i>Fall.</i>		
SPB 3003	BA-BUS	3(3,0)	SPC 1600	COS-COMM	3(3,0)	SPM 4723	ED-TLP	3(3,0)
Introduction to Sport Business Management: PR: Admission to a business major. The sport industry and the principles and applications of sport business management in professional, collegiate, and Olympic sport. <i>Occasional.</i>			Fundamentals of Oral Communication: Communication theory and its application to preparing and delivering public speeches. <i>Fall, Spring.</i>			Legal Issues in Sports and Fitness: PR: Admission to program or C.I. Examination of the legal issues and problems encountered by sports and fitness professionals. <i>Fall.</i>		
SPB 3503	BA-BUS	3(3,0)	SPC 1600H	COS-COMM	3(3,0)	SPM 5155	ED-CFCS	3(3,0)
Ethics in Sport Business: PR: SPB 3003. The ethics and moral issues in sport and their business implications focusing on the responsibilities of decision makers in professional, collegiate, and Olympic sport. <i>Occasional.</i>			Honors Fundamentals of Oral Communication: PR: Consent of Honors. Communication theory and its application to preparing and delivering public speeches. University Honors program. Same as SPC 1600 with honors-level content. <i>Occasional.</i>			Introduction to Sports Administration: PR: 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. <i>Occasional.</i>		
SPB 3603	BA-BUS	3(3,0)	SPC 3301	COS-COMM	3(1,2)	SPM 5308	ED-CFCS	3(3,0)
Diversity and Social Issues in Sport Business Management: PR: SPB 3003. Diversity, social issues, social responsiveness, and financial performance in professional, collegiate, and Olympic sport. <i>Occasional.</i>			Interpersonal Communication: Nature of the communication process; variables affecting the process and the individuals involved. Analysis of communication models, interactant behavior, situational cues, verbal and non-verbal messages. <i>Fall, Spring.</i>			Marketing and Promoting Sports and Fitness Programs: PR: C.I. Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events. <i>Occasional.</i>		
SPB 3823	BA-BUS	3(3,0)	SPC 3425C	COS-COMM	3(2,1)	SPM 5506	ED-CFCS	3(3,0)
The Role of Business Entrepreneurship in Sports/Entertainment: PR: Junior Standing. Analyzes business entrepreneurship in sport/entertainment by examining various entrepreneurs and cultural movements in business organizations. Theories/concepts of business and entrepreneur behavior are applied. <i>Occasional.</i>			Group Interaction and Decision-Making: PR: COM 3311. A study of small group processes. Attention is given to problem solving, leadership emergence, conformity behavior, and group member role responsibilities. <i>Odd Fall, Spring.</i>			Financial Issues in Sports and Fitness: PR: C.I. Examines basic financial concepts including understanding annual reports, developing budgets, financial analysis, and examining methods for increasing revenue and controlling cost in the sport industry. <i>Occasional.</i>		
			SPC 3513	COS-COMM	3(1,2)	SPN 1120	CAH-LANG	4(4,1)
			Argumentation and Debate: PR: SPC 1600 or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization. <i>Occasional.</i>			Elementary Spanish Language and Civilization I: Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. <i>Fall, Spring.</i>		

<p>SPN 1121 CAH-LANG 4(4,1) Elementary Spanish Language and Civilization II: PR: SPN 1120 or equivalent. Continuation of SPN 1120. <i>Fall, Spring.</i></p>	<p>SPN 3142 CAH-LANG 3(3,0) Business Spanish III: PR: C.I. Continuation of Business Spanish II. <i>Even Fall.</i></p>	<p>SPN 4143 CAH-LANG 3(3,0) Business Spanish IV: PR: C.I. Advanced course in business terminology and development of advanced language skills. <i>Odd Spring.</i></p>
<p>SPN 1130H CAH-LANG 4(4,1) Honors Elementary Spanish Language and Civilization I: PR: Permission of Honors. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors-level content. <i>Occasional.</i></p>	<p>SPN 3234 CAH-LANG 3(3,0) Advanced Directed Readings: PR: SPN 2200 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers. <i>Fall, Spring.</i></p>	<p>SPN 4410 CAH-LANG 3(3,0) Advanced Spanish Conversation: PR: SPN 3760, SPN 3420, and SPN 3300 or C.I. Advanced conversation on directed topics from various disciplines: literature, art, psychology, philosophy, music, business, and the sciences. <i>Fall.</i></p>
<p>SPN 1131H CAH-LANG 4(4,1) Honors Elementary Spanish Language and Civilization II: PR: Permission of Honors and SPN 1130H or equivalent. Same as SPN 1121 with honors-level content. <i>Occasional.</i></p>	<p>SPN 3300 CAH-LANG 3(3,0) Advanced Spanish Grammar and Composition: PR: SPN 2201 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts. <i>Fall, Spring.</i></p>	<p>SPN 4421 CAH-LANG 3(3,0) Advanced Spanish Composition: PR: SPN 3300, SPN 3420, SPN 3760 or C.I. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. <i>Even Spring.</i></p>
<p>SPN 1170 CAH-LANG 8(16,10) Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment. <i>Occasional.</i></p>	<p>SPN 3343 CAH-LANG 3(3,0) Advanced Rhetoric for Native Speakers: PR: Third year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only. <i>Occasional.</i></p>	<p>SPN 4510 CAH-LANG 3(3,0) Spanish Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. A study of Spanish civilization and culture from Pre-Roman times to the present. Conducted in Spanish. <i>Occasional.</i></p>
<p>SPN 2200 CAH-LANG 3(3,1) Intermediate Spanish Language and Civilization I: PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. <i>Fall, Spring.</i></p>	<p>SPN 3344 CAH-LANG 3(3,0) Advanced Spanish Native Fluency I: PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers. <i>Fall.</i></p>	<p>SPN 4520 CAH-LANG 3(3,0) Latin American Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. An overview of the currents in Latin American culture and civilization from the Pre-Columbian period to the present. Conducted in Spanish. <i>Occasional.</i></p>
<p>SPN 2200H CAH-LANG 3(3,1) Honors Intermediate Spanish: PR: SPN 1121 or SPN 1131H and Consent of Honors. Development of language skills and cultural knowledge at the intermediate level. With Honors content. <i>Fall.</i></p>	<p>SPN 3345 CAH-LANG 3(3,0) Advanced Spanish Native Fluency II: PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I emphasizing the remaining grammatical topics and composition skills. <i>Spring.</i></p>	<p>SPN 4780 CAH-LANG 3(3,0) Spanish Phonetics: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Students will learn the basic principles of Spanish pronunciation and perfect the correct punctuation of Spanish through intensive practice and oral drill. <i>Occasional.</i></p>
<p>SPN 2201 CAH-LANG 3(3,1) Intermediate Spanish Language and Civilization II: PR: SPN 2200 or equivalent. Continuation of SPN 2200, with emphasis on Spanish civilization. <i>Occasional.</i></p>	<p>SPN 3402 CAH-LANG 3(3,0) Practice in Modern Spanish Grammar: PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts. <i>Occasional.</i></p>	<p>SPN 4800 CAH-LANG 3(3,0) Spanish-American Syntax: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. The course examines the Spanish language from its beginning to the present, with special emphasis as it is written and spoken in Latin America and the U.S. <i>Occasional.</i></p>
<p>SPN 2240 CAH-LANG 3(3,1) Intensive Spanish Conversation: PR: One year of Spanish or equivalent. Practical use of the language, leading towards fluency and correctness in speaking at the intermediate level. <i>Occasional.</i></p>	<p>SPN 3420 CAH-LANG 3(3,0) Spanish Composition: PR: SPN 2201 or equivalent. Development of skills in composition. <i>Fall, Spring.</i></p>	<p>SPN 4801 CAH-LANG 3(3,0) Spanish Morphosyntax: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish. <i>Occasional.</i></p>
<p>SPN 2241 CAH-LANG 3(3,0) Spanish Conversation: PR: SPN 2201 or equivalent. Development of skills in conversation and comprehension through practice. <i>Occasional.</i></p>	<p>SPN 3512 CAH-LANG 3(3,0) Contemporary Spanish Culture Abroad: PR: SPN 2241 or SPN 3420. This course will focus on contemporary Spanish culture presented through classroom lectures and discussions, assigned reading and scheduled activities. <i>Occasional.</i></p>	<p>SPN 5502 CAH-LANG 3(3,0) Hispanic Culture of the United States: PR: Graduate status or senior standing or C.I. An analysis of the Hispanic culture of the United States, past and present. <i>Occasional.</i></p>
<p>SPN 2340 CAH-LANG 3(3,0) Spanish for Native Speakers: PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language. <i>Occasional.</i></p>	<p>SPN 3760 CAH-LANG 3(3,0) Advanced Spanish Oral Communication: PR: SPN 2201 or SPN 2240 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. <i>Fall, Spring.</i></p>	<p>SPN 5505 CAH-LANG 3(3,0) Spanish Peninsular Culture and Civilization: PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish culture and civilization. <i>Occasional.</i></p>
<p>SPN 2341 CAH-LANG 3(3,0) Advanced Spanish for Native Speakers: PR: SPN 2340 or C.I. This course is the continuation of SPN 2340 geared towards native speakers and will complete the remaining grammatical topics as well as emphasize composition skills. <i>Occasional.</i></p>	<p>SPN 3850 CAH-LANG 3(3,0) Structure of the Spanish Language: PR: SPN 3420. Linguistic theory applied to analysis of Spanish language. Includes systematic study of sound patterns, semantics, word formations, and socializations. <i>Occasional.</i></p>	<p>SPN 5506 CAH-LANG 3(3,0) Spanish American Culture and Civilization: PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish American culture and civilization. <i>Occasional.</i></p>
<p>SPN 2511 CAH-LANG 3(3,0) Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and realia are essential components of this course. <i>Occasional.</i></p>	<p>SPN 3852 CAH-LANG 3(3,0) Bilinguismo: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. Spanish-English bilingualism in the United States. Models of language acquisition in bilinguals, domains of language use, maintenance, shift, transfer, diversity, attitudes, code-switching, attrition and contact. <i>Occasional.</i></p>	<p>SPN 5705 CAH-LANG 3(3,0) Introduction to Spanish Linguistics: PR: Graduate status or senior standing or C.I. An introduction to main concepts and methods of analysis focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics. <i>Odd Fall.</i></p>
<p>SPN 3140 CAH-LANG 3(3,0) Business Spanish I: PR: SPN 2200 and SPN 2201 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World. <i>Odd Fall.</i></p>	<p>SPN 3933 CAH-LANG 1(1,0) Spanish Across the Curriculum: PR: SPN 2201 or C.I. CR: concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit. <i>Fall, Spring.</i></p>	
<p>SPN 3141 CAH-LANG 3(3,0) Business Spanish II: PR: C.I. Continuation of Business Spanish I. <i>Even Spring.</i></p>		

UCF Courses and Descriptions

SPN 5825	CAH-LANG	3(3,0)	SPW 3131	CAH-LANG	3(3,0)	SPW 4720	CAH-LANG	3(3,0)
Spanish Dialectology: PR: 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. <i>Occasional.</i>			Survey of Latin-American Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century from Realism to the present. <i>Spring.</i>			The Generation of 1898: PR: SPW 3101 or C.I. A study of the generation's main authors and their works. <i>Occasional.</i>		
SPN 5845	CAH-LANG	3(3,0)	SPW 3320	CAH-LANG	3(3,0)	SPW 4730	CAH-LANG	3(3,0)
History of the Spanish Language: PR: 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. <i>Occasional.</i>			Modern Hispanic Theatre Workshop I: PR: C.I. Introduction to fundamental actor's technique and practice in Spanish. Short scenes will be performed in class. <i>Occasional.</i>			Hispanic Literature of the United States: PR: SPW 3101 or SPW 3131 or C.I. Reading and study of outstanding works written by Hispanic writers of the United States. <i>Occasional.</i>		
SPN 5920	CAH-LANG	3(3,0)	SPW 3321	CAH-LANG	3(3,0)	SPW 4770	CAH-LANG	3(3,0)
AP Spanish Language: PR: Graduate status or senior standing or C.I. Participants will enhance their knowledge of the language and culture of Spanish-speaking peoples and develop further proficiency in listening, comprehension, speaking, reading, and writing. <i>Occasional.</i>			Modern Hispanic Theatre Workshop II: PR: SPW 3320. Participation in a theatre production of a play in Spanish. Open to majors in Spanish, Theatre and any technical performance. <i>Occasional.</i>			Caribbean Spanish Literature: PR: SPW 3101 or SPW 3131 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present. <i>Occasional.</i>		
SPT 3800	CAH-LANG	3(3,0)	SPW 3370	CAH-LANG	3(3,0)	SPW 4772	CAH-LANG	3(3,0)
Spanish Translation and Interpretation: PR: Completion of 2000 level sequence or equivalent. Introduction to translation and interpretation, practical applications of theory applied to professional written and audio texts from Spanish to English and from English to Spanish. <i>Fall, Spring.</i>			Spanish Short Story: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. A study of representative 19th and 20th-century Spanish short stories and their authors. <i>Occasional.</i>			Black Presence in Contemporary Latin American Literature: PR: SPW 3101 or SPW 3131 or C.I. Analysis and discussion of representative contemporary work of authors who have included the black character as part of their narrative. <i>Occasional.</i>		
SPT 3805	CAH-LANG	3(3,0)	SPW 4272	CAH-LANG	3(3,0)	SPW 4773	CAH-LANG	3(3,0)
Spanish Translation and Interpretation for Mass Communication: PR: SPN 3420. Translation and interpretation in mass communication using all forms of media. <i>Even Spring.</i>			20th Century Spanish Novel: PR: SPW 3101 or SPW 3131 or C.I. Major works by the leading authors of the 20th century. Texts selected are studied not only for their aesthetic value, but also in terms of their historical and cultural significance. <i>Occasional.</i>			Puerto Rican Literature: PR: SPW 3100 and SPW 3101 or SPW 3130 and SPW 3131. Puerto Rican Literature from XIX Century to present. Conducted in Spanish. <i>Occasional.</i>		
SPT 3809	CAH-LANG	3(3,0)	SPW 4310	CAH-LANG	3(3,0)	SPW 5741	CAH-LANG	3(3,0)
Medical Spanish Translation/Interpretation: PR: SPN 3420 and SPN 3420. The basic Spanish terminology, techniques and ethics in the field of medical translation and interpretation. <i>Odd Fall.</i>			Golden Age Drama: PR: SPW 3100 or C.I. A study of the drama of the Golden Age, with special emphasis on Lope, Tirso, Alarcon, and Calderon. The controversies of the Spanish theatre and its influence abroad are examined. <i>Occasional.</i>			Contemporary Spanish American Southern Cone Literature: PR: Enrolled in Spanish M.A. Program or C.I. Regional as well as international literary cultures and disciplines in southern cone literature. <i>Occasional.</i>		
SPT 3831	CAH-LANG	3(3,0)	SPW 4322	CAH-LANG	3(3,0)	SSE 3312	ED-TLP	3(3,0)
Spanish Legal Translation and Interpretation: PR: SPN 3420 and SPN 2241. The terminology, procedures and ethics required to be a Spanish language court interpreter and translator in the legal field. May be repeated for credit. <i>Even Fall.</i>			Contemporary Iberian Theatre: PR: SPW 3101 or C.I. A study of the major playwrights and tendencies in contemporary Iberian theatre. <i>Occasional.</i>			Teaching Social Science in the Elementary School: PR: Admission to Phase II or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques; evaluation procedures. <i>Fall, Spring.</i>		
SPT 4801	CAH-LANG	3(3,0)	SPW 4364	CAH-LANG	3(3,0)	SSE 4361	ED-TLP	4(4,0)
Spanish Translation Practicum: PR: SPT 3800. Development of translation and interpretation skills in a professional environment. Concentration in legal, medical, and business areas. <i>Occasional.</i>			Latin-American Narrative/Essay: PR: SPW 3100 or SPW 3130 or SPW 3131 or SPW 3370 or C.I. Study of Latin-American narrative/essay (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. May be repeated for credit only when course content is different. <i>Occasional.</i>			Social Science Instructional Analysis: PR: EDG 4323 or C.I.; CR: ESE 3940 or C.I. Analysis of secondary (grades 6-12) social science instructional programs including development of objectives, materials, processes, and assessment procedures in light of current research and practice. <i>Fall, Spring.</i>		
SPW 3000H	CAH-LANG	3(3,0)	SPW 4381	CAH-LANG	3(3,0)	SSE 5115	ED-TLP	3(3,0)
Honors: Nobel Prize Literature: Spain and Latin America: PR: Permission of Honors and Junior standing or C.I. Students will analyze, discuss and research English translations of Spanish and Latin American Nobel-Prize-Winning writers. Through readings, students will explore the universality of Spanish literature. <i>Occasional.</i>			Latin-American Theatre/Poetry: PR: SPW 3100 or SPW 3101 or SPW 3130 or SPW 3131 or SPW 3370. Study of Latin-American theatre/poetry (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. May be repeated for credit only when course content is different. <i>Occasional.</i>			Methods in Elementary School Social Science: PR: EDG 4323. Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting. <i>Fall.</i>		
SPW 3100	CAH-LANG	3(3,0)	SPW 4382	CAH-LANG	3(3,0)	SSE 5391	ED-TLP	3(3,0)
Survey of Spanish Literature I: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the Middle Ages through the Eighteenth century. <i>Fall.</i>			Central American Literature: PR: SPW 3131 or C.I. This course familiarizes the student with literary works of prominent writers from Central America. It covers the different literary periods within Central America literary history. Taught in Spanish. <i>Occasional.</i>			Global Education: Theory and Practice: PR: 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. <i>Spring.</i>		
SPW 3101	CAH-LANG	3(3,0)	SPW 4450	CAH-LANG	3(3,0)	SSE 5776	ED-TLP	3(3,0)
Survey of Spanish Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century to the present. <i>Spring.</i>			Spanish Literary Theory: PR: SPW 3100 and SPW 3101, or SPW 3130 and SPW 3131, or C. I. A study of textual criticism with emphasis in the theory of genre. <i>Occasional.</i>			Democracy and Education: PR: 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. <i>Fall.</i>		
SPW 3130	CAH-LANG	3(3,0)	SPW 4460	CAH-LANG	3(3,0)	SSE 5790	ED-TLP	3(3,0)
Survey of Latin-American Literature I: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the colonial period to Nineteenth Century Romanticism. <i>Fall.</i>			Nineteenth Century Spanish Literature: PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism. <i>Occasional.</i>			Inquiry and Instructional Analysis in Social Science Education: PR: Admission to M.A. program or alternative certification certificate program. 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. <i>Occasional.</i>		
SPW 3131	CAH-LANG	3(3,0)	SPW 4604	CAH-LANG	3(3,0)			
Survey of Latin-American Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the colonial period to Nineteenth Century Romanticism. <i>Fall.</i>			Cervantes: PR: SPW 3100 or C.I. Don Quixote. <i>Occasional.</i>					

<p>STA 1060C COS-STAT 3(2,1) Basic Statistics Using Microsoft Excel: Applications of Excel; manipulating data; single variable graphs and statistics; scatterplots; probability distributions; statistical inference. <i>Fall, Spring.</i></p>	<p>STA 4173 COS-STAT 3(3,0) Biostatistical Methods: CR: STA 4163 or C.I. Applied statistical principles and methods applied to problems in medical, biological, and health sciences. <i>Occasional.</i></p>	<p>STA 4852 COS-STAT 3(3,0) Applied Time Series: PR: STA 4163. Forecasting methods, time series analysis; stationary and nonstationary time series, ARIMA models, forecasting processes. <i>Occasional.</i></p>
<p>STA 2014C COS-STAT 3(2,1) Principles of Statistics: Introduction to statistical concepts in modern society. Basic principles, frequency distributions, measures of location and dispersion, probability, statistical inference. The "NC" grading policy applies to this course. <i>Fall, Spring.</i></p>	<p>STA 4183 COS-STAT 3(3,0) Theory of Interest: PR: MAC 2312 (or equivalent) and STA 2023. Measurement of simple and compound interests, accumulated and present values factors. Annuities certain, yield rates, amortization schedules and sinking funds. Bonds, securities and related funds. <i>Fall.</i></p>	<p>STA 4939 COS-STAT 3(3,0) Problems in Actuarial Science: PR: STA 4322. Fundamental mathematical and statistical tools for quantitatively assessing risk; application of these tools to problems in actuarial science. May be repeated for credit. <i>Occasional.</i></p>
<p>STA 2023 COS-STAT 3(3,0) Statistical Methods I: PR: MAC 1105 or MGF 1106. First methods course introducing probability and statistical inference, including estimation, hypothesis testing, binomial and normal distributions, sample size. <i>Fall, Spring.</i></p>	<p>STA 4187 COS-STAT 3(3,0) Theory of Graduation: PR: STA 4322. Graduation, moving weighted averages methods, Whitaker-Henderson, Bayesian and parametric methods, smooth-junction formula, graduation of selected data. <i>Occasional.</i></p>	<p>STA 4942 COS-STAT 3(3,0) Practicum in Actuarial Science: PR: STA 4183 or STA 5185. Discussion and presentation by actuarial practitioners. <i>Occasional.</i></p>
<p>STA 2023H COS-STAT 3(3,0) Honors Statistical Methods I: PR: Permission of Honors; Calculus desired by not necessary. Same as STA 2023 with honors-level content. <i>Fall, Spring.</i></p>	<p>STA 4222 COS-STAT 3(3,0) Sample Survey Methods: PR: STA 2023 or STA 3032. Constructing and analyzing survey designs. Sampling and non-sampling errors. Simple random, stratified, systematic, and multiphase sampling. Methods of estimation. <i>Occasional.</i></p>	<p>STA 5085 COS-STAT 3(3,0) Analytical Reasoning: PR: Graduate standing. Concepts in probability and statistics through case studies. Seminar and telecommunications format. Analytical/logical thinking in context. <i>Occasional.</i></p>
<p>STA 3032 ECS-IEMS 3(3,0) Probability and Statistics for Engineers: PR: MAC 2312. Axioms of probability; combinatorial and geometrical probability; probability distributions; measures of location and dispersion; sampling and sampling distributions; estimation and tests of hypotheses; engineering applications. <i>Fall, Spring.</i></p>	<p>STA 4321 COS-STAT 3(3,0) Statistical Theory I: PR: STA 2023 or STA 3032; CR: MAC 2313. Probability axioms, discrete and continuous sample spaces, conditional probability, independence, one-dimensional random variables, moment generating functions, transformations, jointly distributed random variables. <i>Fall.</i></p>	<p>STA 5103 COS-STAT 3(3,0) Advanced Computer Processing of Statistical Data: PR: 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. <i>Fall.</i></p>
<p>STA 3032H ECS-IEMS 3(3,0) Honors Probability and Statistics for Engineers: PR: MAC 2312 and honors standing. Fundamental probability and statistics principles, the underlying assumptions, the procedures for implementing and interpreting them. With honors content. <i>Fall, Spring.</i></p>	<p>STA 4322 COS-STAT 3(3,0) Statistical Theory II: PR: STA 4321. Conditional distributions, sums of random variables. Chebyshev's inequality, central limit theorem, method of moments, maximum likelihood, confidence intervals, hypothesis testing, transformations of two random variables. <i>Spring.</i></p>	<p>STA 5139 COS-STAT 3(3,0) Credibility Theory and Loss Distribution: PR: STA 4322, graduate status or senior standing, or C.I. Full and partial credibility. The credibility premium. Exact credibility. Parametric and nonparametric estimation of credibility. Loss models for claim severities and frequencies. Aggregate claims models. <i>Fall.</i></p>
<p>STA 3096 COS-STAT 3(3,0) Statistical Graphics: PR: STA 2023 or STA 3032 and a knowledge of a programming language. Principles of graph construction, graphical perception, graphical methods, computer programs for graph construction. <i>Occasional.</i></p>	<p>STA 4502 COS-STAT 3(3,0) Nonparametric Statistical Methods: PR: STA 2023 or STA 3032. Distribution-free tests on location and dispersion, goodness of fit tests, tests of independence, measures of association, nonparametric analysis of variance. <i>Occasional.</i></p>	<p>STA 5175 COS-STAT 3(3,0) Biometry: PR: STA 2023, graduate status or senior standing, or C.I. Design and analysis of experiments with emphasis on biological/ecological application; one-way and multi-way ANOVA; regression; ordination; classification. <i>Spring.</i></p>
<p>STA 4102 COS-STAT 3(3,0) Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Use of packages such as SAS, BMD, SPSS for data validation, description and analysis of data, regression and analysis of variance and covariance. <i>Fall.</i></p>	<p>STA 4504 COS-STAT 3(3,0) Categorical Data Analysis: PR: STA 4163 or STA 4165. Two-way and three-way contingency tables, odds ratios, partial association, logistic regression and log linear models. <i>Occasional.</i></p>	<p>STA 5176 COS-STAT 3(3,0) Introduction to Biostatistics: PR: 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. <i>Occasional.</i></p>
<p>STA 4130 COS-STAT 3(3,0) Life Contingencies I: PR: STA 4183 (or new number STA 4183). Economics of insurance, utility theory, single premiums for insurance and annuities in both discrete and continuous cases. Net annual premium and net premium reserves. <i>Fall.</i></p>	<p>STA 4641 COS-STAT 3(3,0) Risk Theory and Decision: PR: STA 4322. Individual and collective risk models for short terms and for extended periods, applications of risk theory to actuarial problems. Risk factors and their financial effects. <i>Occasional.</i></p>	<p>STA 5185 COS-STAT 3(3,0) Advanced Theory of Interest: PR: MAC 2312 and STA 2023, graduate status or senior standing, or C.I. Measurement of Interest, valuation of annuities, determination of yield rates on investments, fixed income securities, mortgages, etc. <i>Fall.</i></p>
<p>STA 4131 COS-STAT 3(3,0) Life Contingencies II: PR: STA 4130 (new number STA 4130?). Multiple-decrement and multi-life models. Insurance models including expenses. Modified reserves. Cash values, insurance options and asset shares. Non forfeiture benefits and dividends. <i>Spring.</i></p>	<p>STA 4664 COS-STAT 3(3,0) Statistical Quality Control: PR: STA 2023 or STA 3032. Statistical concepts and methods applied to the control of quality of manufactured products. <i>Occasional.</i></p>	<p>STA 5205 COS-STAT 3(3,0) Experimental Design: PR: 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. <i>Spring.</i></p>
<p>STA 4163 COS-STAT 3(3,0) Statistical Methods II: PR: STA 2023 or STA 3032. Not open to students with credit in STA 4165. Methods of analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods. <i>Fall, Spring.</i></p>	<p>STA 4672 COS-STAT 3(3,0) Actuarial Statistical Methods: PR: STA 2023 and STA 4183. Regression and time series analysis of insurance and financial data. <i>Occasional.</i></p>	<p>STA 5206 COS-STAT 3(3,0) Statistical Analysis: PR: 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. <i>Fall.</i></p>
<p>STA 4164 COS-STAT 3(3,0) Statistical Methods III: PR: STA 4163. A continuation of STA 4163, including further study of regression, analysis of variance and covariance and multiple comparisons. <i>Fall, Spring.</i></p>	<p>STA 4675 COS-STAT 3(3,0) Demographic Statistics: PR: STA 4322. Measures of mortality, fertility and morbidity. Construction methods of life tables from census data, population projection techniques, stability and stationarity of demographic populations. <i>Occasional.</i></p>	<p>STA 5505 COS-STAT 3(3,0) Categorical Data Methods: PR: 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. <i>Occasional.</i></p>

UCF Courses and Descriptions

STA 5646	COS-STAT	3(3,0)	SYA 4450	COS-SOC	4(3,2)	SYD 4810	COS-SOC	3(3,0)
Casualty Insurance: PR: STA 4322 and STA 4641, graduate status or senior standing, or C.I. Individual risk rating and classification of risk for property/casualty insurance. Re insurance and expense issues. Reserves for insurance and loss adjustment expenses. Investment income. <i>Occasional.</i>			Data Analysis: PR: SYA 4300C and SYA 3400. Advanced social research design and analytical skills. Emphasis on social data management, various modes of social data analysis, interpretation, integration, presentation, and report writing. <i>Spring.</i>			Women in Contemporary Society: PR: SYG 2000 or WST 3015 or C.I. Examination and evaluation of the status of women in the context of the major social institutions (e.g., family, education, religion, economy and polity.). <i>Fall, Spring.</i>		
STA 5703	COS-STAT	3(3,0)	SYA 4650C	COS-SOC	3(2,2)	SYD 4813	COS-SOC	3(3,0)
Data Mining Methodology I: PR: STA 5103 and STA 5206, graduate status or senior standing, or C.I. Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access). Process with neural network and decision tree. <i>Fall.</i>			Applied Sociology: PR: SYG 2000 or SYG 2010 or C.I. Utilization of sociological principles in the treatment of practical human problems and organization. <i>Occasional.</i>			Women and Social Policy: PR: SYG 2000 or SYG 2010 or C.I. The process of social movements and how they impact legalized social norms for women in public and private life. <i>Occasional.</i>		
STA 5825	COS-STAT	3(3,0)	SYA 5625	COS-SOC	3(3,0)	SYD 5517	COS-SOC	3(3,0)
Stochastic Processes and Applied Probability Theory: PR: 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, queuing theory, and simple stochastic processes. <i>Spring.</i>			ProSeminar: PR: 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. <i>Fall.</i>			Environment and Society: PR: Graduate standing or C.I. The application of sociological theory and methods to the relationships between communities, societies, and the environment. <i>Occasional.</i>		
STA 5940	COS-STAT	1(1,0)	SYA 5652	COS-SOC	3(3,0)	SYD 5795	COS-SOC	3(3,0)
Statistical Advice for Researchers: PR: Graduate status or senior standing or C.I. Discussion of student-supplied statistical problem, data sources, sampling techniques, computer package usage, analysis, interpretation. May be repeated for credit. Graded S/U. <i>Occasional.</i>			Advanced Population: PR: Graduate standing or C.I. Examines the theories, methods, and information utilized by demographers and focuses on techniques of application of those skills. <i>Occasional.</i>			Class, Race, and Gender in American Society: PR: Graduate standing or C.I. Using theoretical and empirical studies, this course will provide a sociological examination of the intersections of race, class, and gender in American society. <i>Occasional.</i>		
SUR 2101C	ECS-CEE	3(2,3)	SYD 3410	COS-SOC	3(3,0)	SYG 2000	COS-SOC	3(3,0)
Surveying: PR: MAC 2311 and Junior standing. Theory and field practice in surveying measurements and the reduction and adjustment of field data. <i>Spring.</i>			Urban Sociology: PR: SYG 2000 or C.I. Historical roots of urbanization. Analysis and impact of community change on social organizations in modern industrial societies. <i>Occasional.</i>			General Sociology: Introduction to the sociological perspective and the scientific study of sociological concepts, theories, processes, and methods used in understanding contemporary human behavior in group interaction. <i>Fall, Spring.</i>		
SUR 3530C	ECS-ENT	3(2,2)	SYD 3700	COS-SOC	3(3,0)	SYG 2000H	COS-SOC	3(3,0)
Geodetic Science: PR: SUR 2101C or C.I. Spherical trigonometry, basic topics in geodesy including geodetics reference systems and earth models, state plane coordinates, astronomic observations, time systems, and satellite orbits. <i>Spring.</i>			Race and Ethnic Minorities in the United States: Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification. <i>Fall, Spring.</i>			General Sociology: PR: Permission of Honors. Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology. <i>Fall, Spring.</i>		
SYA 3110	COS-SOC	3(3,0)	SYD 3750	COS-SOC	3(3,0)	SYG 2010	COS-SOC	3(3,0)
The Development of Social Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. Theories concerning the nature of mankind as a "social being." The nature of society from the beginnings of the scientific study of human life to World War II. <i>Spring.</i>			Contemporary Social Issues and North American Indians: PR: 2000 level social science or C.I. Examination of North American Indian sovereignty and current issues including economic development, education, freedom of religion, child welfare, federal/state/tribal relationships and environment. <i>Occasional.</i>			Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence. <i>Fall, Spring.</i>		
SYA 3120	COS-SOC	3(3,0)	SYD 3751	COS-SOC	3(3,0)	SYG 3949	COS-SOC	0(0,8)
Modern Sociological Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. A study of major European and American contributors to modern sociology since World War II. <i>Occasional.</i>			North American Indian Women Today: PR: 2000 level social science course or C.I. Examination of works of modern North American Indian women within context of sovereign rights. Issues include myths, gender roles, coerced sterilization, child welfare, and economic opportunities. <i>Occasional.</i>			Cooperative Education in Sociology: PR: Departmental permission required before registering. Cooperative education experience in sociology. Graded S/U. May be repeated for credit. <i>Occasional.</i>		
SYA 3400	COS-SOC	4(3,1)	SYD 3752	COS-SOC	3(3,0)	SYO 3000	COS-SOC	3(3,0)
Research Methods and Statistics: PR: SYG 2000 and one other sociology course. <i>Fall.</i>			Modern Law in Indian Country: PR: 2000 level social science course or C.I. Examination of impact of unique legal relationship between American Indian governments and state federal governments. Legal issues include criminal justice, child welfare, and land ownership. <i>Occasional.</i>			Modern Sociology: PR: SYG 2000 or SYG 2010 or C.I. Exploration of contemporary sociology. Conceptual analysis and methodological techniques, presentation and utilization of sociological literature on major social institutions. <i>Occasional.</i>		
SYA 4112	COS-SOC	3(3,0)	SYD 3800	COS-SOC	3(3,0)	SYO 3360	COS-SOC	3(3,0)
The Thought and Writings of W.E.B. Du Bois: PR: SYG 2000 or SYG 2010. The sociological/social scientific contributions of W.E.B. Du Bois. <i>Occasional.</i>			Sex Roles in Modern Society: The traditional and changing roles of women and men viewed in a sociological perspective. <i>Fall, Spring.</i>			Social Organization and Human Relations: Analysis of business, government, and industrial organizations. Topics include organizational theory, social systems, social structure, effects of technology, motivation, leadership, decision-making, and human relations. <i>Occasional.</i>		
SYA 4300C	COS-SOC	4(3,2)	SYD 4020	COS-SOC	3(3,0)	SYO 3410	COS-SOC	3(3,0)
Research Methods: PR: SYG 2000 or SYG 2010 or C.I. Sociological data collections, sampling techniques, grant proposal development, critical evaluation of social research, and relationship between theory and social research. <i>Fall.</i>			Population: Concerned with the study of human population, its distribution, composition, and change. <i>Occasional.</i>			Sociology of Mental Illness: A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions. <i>Occasional.</i>		
SYA 4310C	COS-SOC	4(3,1)	SYD 4510	COS-SOC	3(3,0)	SYO 3530	COS-SOC	3(3,0)
Qualitative Research Analysis in Sociology: PR: SYA 4300C. Advanced research design and analysis focusing on qualitative research methodologies in sociology. Emphasizes data collection, management, analysis, interpretation, integration, presentation, and report writing. <i>Occasional.</i>			Environmental Sociology: PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment. <i>Odd Spring.</i>			Social Stratification: PR: SYG 2000 or C.I. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change. <i>Occasional.</i>		
			SYD 4514	COS-SOC	3(3,0)	SYO 4100	COS-SOC	3(3,0)
			Environmental Movement: PR: SYG 2000 or SYG 2010 or C.I. Origins, evolution, current status and societal impacts of the environmental movement via sociological theory, concepts and research on social movements. <i>Occasional.</i>			Family Trends: PR: SYG 2000 or SYG 2010 or C.I. Intimate relationships, practices, trends and issues affecting today's marriages and families. <i>Fall, Spring.</i>		

UCF Courses and Descriptions

<p>SYO 4200 COS-SOC 3(3,0) Sociology of Religion: PR: SYG 2000 or C.I. The relationship between the religious institution and social stratification, family, education, as well as issues pertaining to gender, race, ethnicity, and age. <i>Occasional.</i></p>	<p>SYO 4250 COS-SOC 3(3,0) Sociology of Education: PR: SYG 2000 or C.I. This course examines the sociological dimensions of the educational institutions, including the impact of the social structure on learning and the role of education in social change. <i>Occasional.</i></p>	<p>SYO 4300 COS-SOC 3(3,0) Political Sociology: Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government. <i>Occasional.</i></p>	<p>SYO 4400 COS-SOC 3(3,0) Medical Sociology: Analysis of patient beliefs and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care. <i>Occasional.</i></p>	<p>SYO 4500 COS-SOC 3(3,0) Collective Behavior: PR: SYG 2000 or C.I. Analysis of relatively unstructured social situations, such as mobs, crowds, etc. as well as more structured forms of collective behavior such as social movements. <i>Occasional.</i></p>	<p>SYO 4600 COS-SOC 3(3,0) Social Change: PR: SYG 2000 or SYG 2010 or C.I. Context and essential sources of social development and change. <i>Occasional.</i></p>	<p>SYO 4700 COS-SOC 3(3,0) Sociology of Deviant Behavior: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization. <i>Spring.</i></p>	<p>SYO 4800 COS-SOC 3(3,0) Sociology of Murder: PR: SYG 2000 or SYG 2010 or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances. <i>Fall.</i></p>	<p>SYO 4900 COS-SOC 3(3,0) Criminology: PR: SYG 2000 or SYG 2010 or C.I. Chief causes of anti-social behavior and current methods of prevention and reform. Effects of heredity and environment, prevalence of delinquency and crime, penal institutions. <i>Fall, Spring.</i></p>	<p>SYO 5000 COS-SOC 3(3,0) Juvenile Delinquency: Types of delinquency behavior found among juveniles; possible causes and ways society attempts to treat the various forms of delinquency. <i>Occasional.</i></p>	<p>SYO 5100 COS-SOC 3(3,0) Sociology of Law: PR: SYG 2000 or SYG 2010 or C.I. The relationship between law and society, including the functions of law and its organization, social and economic consequences, jury selection, and modern trends. <i>Occasional.</i></p>	<p>SYO 5200 COS-SOC 3(3,0) Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society. <i>Occasional.</i></p>	<p>SYO 5300 COS-SOC 3(3,0) Sociological Perspectives on Domestic Violence: PR: SYG 2000 or C.I. Sociological perspectives on all forms of domestic violence, including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention. <i>Occasional.</i></p>	<p>SYP 3602 COS-SOC 3(3,0) Sociology of Popular Music: PR: SYG 2000 or SYG 2010 or C.I. The role of popular music in social change and in reflecting American culture. Consideration is given to the nature of the popular music business. <i>Occasional.</i></p>	<p>SYP 3630 COS-SOC 3(3,0) Sociology of Popular Culture: PR: Junior Standing or C.I. Examines the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age. <i>Occasional.</i></p>	<p>SYP 3650 COS-SOC 3(3,0) Sociology and Sport: PR: SYG 2000 or SYG 2010 or C.I. Utilization of sociological concepts and theories to investigate sport as a social institution. Includes subjects of racism, sexism, drug abuse, violence, and current issues of sport. <i>Occasional.</i></p>	<p>SYP 4000 COS-SOC 3(3,0) Sociological Social Psychology: PR: SYG 2000 or C.I. Study of social perception, attitude formation and change, motivation, and decision-making in small groups as affected by social interaction and social processes. <i>Occasional.</i></p>	<p>SYP 4004 COS-SOC 3(3,0) Constructing Social Issues: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of social problems as an emergent process that involves collective definitions and legitimating organizations. Topics include deviance, race, gender and popular culture. <i>Occasional.</i></p>	<p>SYP 4304 COS-SOC 3(3,0) Social Movements and Revolutions: PR: SYG 2000 or C.I. Comparative sociology of revolutions and the sociological research on social movements. <i>Occasional.</i></p>	<p>SYP 4454 COS-SOC 3(3,0) Sociology of the Global System: PR: SYG 2000 or C.I. Theoretical and empirical examination of the sociological process of global stratification and the countervailing force of an emergent anti-globalization social movement. <i>Occasional.</i></p>	<p>SYP 4514 COS-SOC 3(3,0) Sociology of Violence: PR: SYG 2000 or SYG 2010 or C.I. Social roots, culture, circumstances, prevention, and control of violence. <i>Occasional.</i></p>	<p>SYP 4521 COS-SOC 3(3,0) Criminal Victimization in Society: PR: SYG 2000, or SYG 2010 or C.I. Crime victims in society; topics include issues related to victimology such as victimization risks and societal treatment of victims. <i>Occasional.</i></p>	<p>SYP 4536 COS-SOC 3(3,0) Gangs and Society: PR: SYG 2000 or SYG 2010 or C.I. Gangs in the U.S.; topics include types of gangs, gang members, activities, group processes, and societal responses to gangs. <i>Occasional.</i></p>	<p>SYP 4550 COS-SOC 3(3,0) Sociology of Drug Abuse: Analysis of the socio-cultural elements of the drug culture. <i>Occasional.</i></p>	<p>SYP 4730 COS-SOC 3(3,0) Sociology of Aging: PR: SYG 2000 or SYG 2010 or C.I. Sociological aspects of aging in America. <i>Fall, Spring.</i></p>	<p>SYP 4732 COS-SOC 3(3,0) Minority Aging: PR: SYG 2000 or SYD 3700 or SYP 4730 or C.I. A sociological examination of older populations within minorities: ethnic minorities, women, and gay men and lesbians. <i>Occasional.</i></p>	<p>SYP 5005 COS-SOC 3(3,0) Sociological Social Psychology: PR: 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. <i>Occasional.</i></p>	<p>SYP 5525 COS-SOC 3(3,0) Sociological Criminology: PR: Graduate standing or C.I. To examine current sociological knowledge and research on various issues in Criminology, and to further students' skills in developing/conducting research projects. <i>Occasional.</i></p>	<p>SYP 5566 COS-SOC 3(3,0) Seminar on Domestic Violence: Theory, Research and Social Policy: PR: 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. <i>Occasional.</i></p>	<p>SYP 5615 COS-SOC 3(3,0) Sociology of Culture: PR: Graduate standing or C.I. Major theoretical approaches and empirical studies in the sociology of culture and analysis of cultural processes. <i>Occasional.</i></p>	<p>SYP 5738 COS-SOC 3(3,0) Seminar on the Welfare State & Aging: PR: Graduate standing or C.I. A sociological examination of old policies from a cross-cultural perspective. <i>Occasional.</i></p>	<p>TAX 4001 BA-ACCT 3(3,0) Taxation of Business Entities and Transactions: PR: Junior standing plus completion of ACG 2021 and ACG 2071 with a grade of "C" or higher. Federal income tax laws affecting the taxation of business entities and transactions. <i>Fall, Spring.</i></p>	<p>TAX 5015 BA-ACCT 3(3,0) Advanced Tax Topics: PR: Accounting major or minor, TAX 4001 or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships. <i>Fall, Spring.</i></p>	<p>THE 2000 CAH-THEA 3(3,0) Theatre Survey: Overview of the art and craft of the theatre. Restricted to non majors. <i>Fall, Spring.</i></p>	<p>THE 2000H CAH-THEA 3(3,0) Theatre Survey - Honors: PR: Permission of Honors. Not restricted to theatre majors. Honors-level overview of the art and craft of the theatre. <i>Fall, Spring.</i></p>	<p>THE 2020 CAH-THEA 3(3,0) Survey of Theatre for Majors: PR: Theatre major or minor. Overview of the art and craft of theatre. <i>Fall.</i></p>	<p>THE 2025 CAH-THEA 3(3,0) Introduction to Theatrical Design: PR: C (2.) in THE 2000 or THE 2020 and TPA 2201. Basic design elements and the collaborative process introduced as practical tools for theatre production. Not allowed for Design and Technology or Stage Management majors. <i>Occasional.</i></p>	<p>THE 2050 CAH-THEA 3(3,0) Theatre Studies in Creative Drama: PR: Theatre major or minor. Techniques and theories for facilitating creative drama with youth, as both an art form and teaching tool. <i>Occasional.</i></p>	<p>THE 2090L CAH-THEA 1(0,VAR) Theatre Participation-Management I: PR: Theatre major or minor. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. <i>Fall, Spring.</i></p>	<p>THE 2304 CAH-THEA 3(3,0) Script Analysis: PR: Theatre major or minor. Exploration of dramatic form with focus on playscripts for productions. <i>Fall, Spring.</i></p>	<p>THE 2925L CAH-THEA 0(0,VAR) Theatre Participation: PR: Theatre major or minor. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. Graded S/U. <i>Fall, Spring.</i></p>
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UCF Courses and Descriptions

THE 3082 Theatre Careers: PR: Theatre major or minor, Sophomore standing, and "C" (2.0) or better in THE 2020 or THE 2000. Techniques to secure employment in theatre and related fields. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 4245 Musical Theatre History II: PR: BFA Musical Theatre major, C (2.0) or better required in THE 4244. Origins and evolution of Musical Theatre from the 1950s through the present. <i>Spring.</i>	CAH-THEA 3(3,0)	TPA 2000C Theatre Design Basics: PR: BFA Design/Tech or Stage Management major, C (2.0) or better required in THE 2020 or THE 2000. Basic design skills for scenic, lighting and costume designers using color, grayscales, textures and symmetry to create a strong stage presence. <i>Fall.</i>	CAH-THEA 3(2,2)
THE 3110 Theatre History I: PR: (THE 2020 or THE 2000) and THE 2304 and Theatre major or departmental consent. Development of theatre arts from prehistory through the 17th century. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 4284 Costume, Architecture, Decor History I: PR: "C" (2.0) or better in TPA 2000C and THE 3311 and THE 3312. Costumes, furniture and decor from antiquity to the High Renaissance. <i>Fall.</i>	CAH-THEA 3(3,0)	TPA 2010C Scenography: PR: "C" (2.0) or better in TPA 2000C and BFA Design and Technology or Stage Management major. Introduction to design for the stage, including scenery, lighting, costumes and sound. <i>Occasional.</i>	CAH-THEA 3(2,2)
THE 3111 Theatre History II: PR: THE 3110, THE 3305. Theatre major or departmental consent. Theatre arts from the seventeenth century to the present. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 4285 Costume, Architecture, Decor History II: PR: "C" (2.0) or better in THE 4284. Costumes, furniture and decor from the English Renaissance to the present. <i>Spring.</i>	CAH-THEA 3(3,0)	TPA 2071C Theatre Rendering: PR: "C" (2.0) or better in TPA 2000C. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers. <i>Spring.</i>	CAH-THEA 3(2,2)
THE 3212 Global Theatre: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Theatrical arts and traditions of various countries with an emphasis on non-western cultures. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 4954C Theatre Capstone: PR: or CR:TPP 3310C and Senior Standing. Collaborative theatre experience focused on career orientation of individual student. <i>Occasional.</i>	CAH-THEA 3(3,6)	TPA 2201 Technical Theatre Production: PR: B.A. Theatre, B.F.A. Musical Theatre/Acting major or minor, PR: "C" (2.0) or better in THE 2020 or THE 2000; CR: TPA 2201L. Development, theory and practice of all areas of technical theatre production. <i>Fall, Spring.</i>	CAH-THEA 2(2,0)
THE 3230 Cultural Diversity in Theater: PR: "C" (2.0) or better in THE 2020 or THE 2000. Commonality of human experience among various cultural groups through the study of dramatic literature. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5205 American Theatre: PR: THE 5910, and MA or MFA Theatre Graduate. Examination of performance and historical perspectives of American drama. <i>Spring.</i>	CAH-THEA 3(3,0)	TPA 2201L Technical Theatre Production Lab: CR: TPA 2201. Practical projects in scenic construction. <i>Occasional.</i> M&S fee: \$15.00	CAH-THEA 1(0,6)
THE 3240 Musical Theatre Survey: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the present day. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5248 Musical Theatre in History: PR: 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. <i>Fall.</i>	CAH-THEA 3(3,0)	TPA 2210 Stagecraft I: PR: BFA Design/Tech or Stage Management, CR: TPA 2210L. Development, theory, and practice of technical theatre production. <i>Fall.</i>	CAH-THEA 3(3,0)
THE 3282 Period Props and Furniture: PR: THE 2020 or THE 2000, and Theatre major or departmental consent. Viewing and discussion of major styles of architecture, ornament, fabric, and furniture that individualize the specific time and location from Egypt to Deco. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5278C Musical Theatre Lab: PR: TPP 5157C. Practical course in developing musical theatre skills for the actor. <i>Spring.</i>	CAH-THEA 1(1,1)	TPA 2210L Stagecraft I Lab: PR: or CR: "C" (2.0) or better in TPA 2210. Practical projects in scenic construction. <i>Occasional.</i> M&S fee: \$15.00	CAH-THEA 1(0,6)
THE 3305 Dramatic Literature I: PR: (THE 2020 or THE 2000) and THE 2304 and Theatre major or departmental consent. Playscripts from Sophocles to Jonson. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5288 Period Costumes, Architecture and Décor I: PR: Admission into Theatre MFA Design Track. Costumes, architecture and decor from antiquity to the renaissance. <i>Fall.</i>	CAH-THEA 3(3,0)	TPA 2211 Stagecraft II: PR: "C" (2.0) or better in TPA 2210 and TPA 2210L; CR:TPA 2211L. Hand-drafting, properties design, and construction. <i>Spring.</i>	CAH-THEA 3(3,0)
THE 3306 Dramatic Literature II: PR: THE 3305, THE 3110. Restricted to Theatre majors or departmental consent. Playscripts from Restoration to Mid-20th Century. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5289 Period Costumes, Architecture and Décor II: PR: THE 5288. Costumes, architecture and decor from the Renaissance to present. <i>Spring.</i>	CAH-THEA 3(3,0)	TPA 2211L Stagecraft II Lab: PR: "C" (2.0) or better in TPA 2210 and TPA 2210L; CR: TPA 2211. Practical projects in scenic and property construction. <i>Occasional.</i> M&S fee: \$15.00	CAH-THEA 1(0,6)
THE 3311 Theatre History and Dramatic Literature I: PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from the Greeks to the Renaissance. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5307 Contemporary Theatre Practice: PR: THE 3110, THE 3111, THE 3306, Restricted to Theatre majors or departmental consent. Contemporary trends in plays and theatre production in the late 20th century. <i>Spring.</i>	CAH-THEA 3(3,0)	TPA 2220C Stage Electronics: PR: or CR: THE 2020 or THE 2000 and BFA Design and Technology or Stage Management major. Introduction to electronics for the stage, including electricity, lighting equipment and sound equipment. <i>Fall.</i>	CAH-THEA 3(2,2)
THE 3312 Theatre History and Dramatic Literature II: PR: "C" (2.0) or better in THE 3311. Theatre history and drama from French neo-classicism to modern realism. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5385 Dramatic Literature for Children: PR: Admission to MFA graduate program or C.I. An in-depth study of the growth and development of dramatic literature for children. <i>Even Fall.</i>	CAH-THEA 3(3,0)	TPA 2230C Costume Construction: PR: THE 2020 or THE 2000; and BFA Design and Technology or Stage Management major. Lecture/laboratory study of the basic techniques used in the construction of stage costumes. <i>Spring.</i> M&S fee: \$15.00	CAH-THEA 3(2,2)
THE 3313 Theatre History and Dramatic Literature III: PR: "C" (2.0) or better in THE 3312. Theatre history and drama from modern realism to present. <i>Occasional.</i>	CAH-THEA 3(3,0)	THE 5910 Research Methods in Theatre: PR: MFA and MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms. <i>Fall.</i>	CAH-THEA 3(3,0)	TPA 2248C Makeup Techniques: PR: Theatre B.F.A. major or departmental consent. Theory and practice of stage makeup. <i>Fall, Spring.</i> M&S fee: \$15.00	CAH-THEA 2(2,2)
THE 4093L Theatre Participation-Management II: PR: Theatre major or minor; "C" (2.0) or better in THE 2090L. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. <i>Fall, Spring.</i>	CAH-THEA 1(0,VAR)	THE 5945L Theater Practicum I: PR: Graduate status or C.I. A laboratory course designed to develop students' practical working knowledge in Theater. <i>Occasional.</i>	CAH-THEA 1(0,20)	TPA 2290L Theatre Participation-Production I: PR: Theatre major or minor. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. <i>Fall, Spring.</i> M&S fee: \$15.00	CAH-THEA 1(0,VAR)
THE 4244 Musical Theatre History I: PR: B.F.A. Musical Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the 1950s. <i>Fall.</i>	CAH-THEA 3(3,0)	THE 5946L Theater Practicum II: PR: Admission into the graduate program, Theater Practicum I. A laboratory course designed to develop students' practical working knowledge in theater. <i>Occasional.</i>	CAH-THEA 1(0,20)	TPA 2600 Stage Management Basics: PR: "C" (2.0) or better in THE 2020 or THE 2000 and BFA Stage Management major. Functions and responsibilities of professional stage managers. <i>Occasional.</i>	CAH-THEA 3(3,0)

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<p>TPA 3040C CAH-THEA 3(2,2) Costume Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C. Projects in the fundamentals of costume design for the stage. <i>Fall</i>.</p>	<p>TPA 4251C CAH-THEA 2(2,2) Advanced CADD for Theatre: PR: "C" (2.0) or better in TPA 4250C. Advanced computer-aided drafting and design and its application for Theatre. <i>Spring</i>. M&S fee: \$38.75</p>	<p>TPA 5345C CAH-THEA 2(2,2) 2D Computer Assisted Design for Theatre: PR: Admission into the Theatre MFA Design Track. Two-Dimensional computer drafting and editing techniques applicable to theatre design. <i>Occasional</i>.</p>
<p>TPA 3060C CAH-THEA 3(2,2) Scenic Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C. Projects in the fundamentals of scenic design for the stage. <i>Fall</i>.</p>	<p>TPA 4264C CAH-THEA 3(2,2) Sound Design for Theatre II: PR: "C" (2.0) or better in TPA 3260C. Project sound design work with an emphasis on design communication and professional standards and practices. <i>Occasional</i>.</p>	<p>TPA 5346C CAH-THEA 2(2,2) 3D Modeling for Theatre: PR: TPA 5345C. Three-dimensional computer modeling and editing techniques applicable for theatre design. <i>Occasional</i>.</p>
<p>TPA 3077C CAH-THEA 3(2,2) Scene Painting: PR: "C" (2.0) or better in TPA 2000C and TPA 2071C. Projects in scene painting techniques. <i>Fall</i>. M&S fee: \$15.00</p>	<p>TPA 4293L CAH-THEA 1(0,VAR) Theatre Participation-Production II: PR: "C" (2.0) or better in TPA 2290L. Participation in UCF Theatre Productions. May be used in the degree program a maximum of 8 times. <i>Fall, Spring</i>. M&S fee: \$15.00</p>	<p>TPA 5405 CAH-THEA 3(3,0) Theatre Management for Non-Majors: PR: THE 2020 or THE 2000, graduate status, 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. <i>Fall</i>.</p>
<p>TPA 3195L CAH-THEA 3(0,VAR) Summer Theatre Studio/Tech/Design I: PR: Departmental consent by audition or interview. Study, analysis and execution of technical/design aspects for playscripts produced on UCF mainstage. May be repeated for credit. <i>Occasional</i>. M&S fee: \$20.00</p>	<p>TPA 4384C CAH-THEA 3(3,4) Advanced Topics in Technical Theatre: PR: C (2.0) in TPA 2210 and TPA 2211. Variable topics which may include Technical Direction or other advanced topics. May be used in the degree program a maximum of 4 times. <i>Occasional</i>. M&S fee: \$35.00</p>	<p>TPA 5885C CAH-THEA 2(2,2) Puppetry: PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance. <i>Odd Spring</i>. M&S fee: \$30.00</p>
<p>TPA 3197L CAH-THEA 3(0,VAR) Summer Theatre Studio/Tech/Design II: PR: Departmental consent by audition or interview. Continuation of TPA 3195L. May be repeated for credit. <i>Occasional</i>. M&S fee: \$20.00</p>	<p>TPA 4400 CAH-THEA 3(3,0) Theatre Management: PR: "C" (2.0) or better in THE 2000 or THE 2020. Restricted to theatre majors or Departmental consent. Study of the development, organization, management, funding, and promotion of theatre programs. Additional emphasis placed on management theory and style. <i>Fall</i>.</p>	<p>TPA 5946C CAH-THEA 1(0,20) Design Practicum I: PR: 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. <i>Occasional</i>.</p>
<p>TPA 3221C CAH-THEA 3(2,2) Lighting Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C and TPA 2220C. Projects in the fundamentals of lighting design for the stage. <i>Spring</i>.</p>	<p>TPA 4401 CAH-THEA 3(3,0) Theatre Careers in Production: PR: B.F.A. Design/Tech or Stage Management; Junior standing. Techniques to secure employment in technical theatre, design, and stage management. <i>Spring</i>.</p>	<p>TPA 5949C CAH-THEA 1(0,20) Design Practicum II: PR: 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. <i>Occasional</i>.</p>
<p>TPA 3249C CAH-THEA 2(2,2) Advanced Makeup Techniques: PR: "C" (2.0) or better in TPA 2248C. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks. <i>Occasional</i>. M&S fee: \$15.00</p>	<p>TPA 4602 CAH-THEA 3(3,0) Advanced Stage Management: PR: B.F.A. Stage Management major, C (2.0) or better required in TPA 3601. Skills necessary for stage managers in contemporary entertainment. <i>Fall</i>.</p>	<p>TPP 2101 CAH-THEA 3(3,0) Fundamentals of Acting: PR: B.A. Theatre Major or minor, and C (2.0) or better in THE 2000 or THE 2020. Development of imagination, self-awareness and the ability to execute basic stage tasks. <i>Fall, Spring</i>.</p>
<p>TPA 3260C CAH-THEA 3(2,2) Sound Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C and TPA 2220C. Projects in the fundamentals of sound design for the stage. <i>Spring</i>.</p>	<p>TPA 4940 CAH-THEA 6(0,40) Technical Theatre/Design Internship: PR: B.F.A. Design/Technology and Stage Management major. Off-campus internship programs provide opportunity for practical work in professional theatre. <i>Occasional</i>.</p>	<p>TPP 2110C CAH-THEA 3(2,2) Acting I - Introduction: PR: B.F.A. Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness, and the ability to execute basic stage tasks. <i>Fall, Spring</i>.</p>
<p>TPA 3383C CAH-THEA 2(2,4) Topics in Technical Theatre: PR: TPA 2230C. Techniques used in the production of scenery or costumes for the stage. Variable Topics. May be used in the degree program a maximum of 5 times. <i>Occasional</i>. M&S fee: \$35.00</p>	<p>TPA 5042C CAH-THEA 3(3,0) Costume Design Studio: PR: Admission into the graduate program, TPA 3043C, TPA 3044C, or C.I. Project oriented course in the advance study of Costume Design. <i>Occasional</i>.</p>	<p>TPP 2170C CAH-THEA 3(2,2) Acting II - The Actor Prepares: PR: "C" (2.0) or better in TPP 2110C. Fundamental techniques to acting, with emphasis on characterization and character development. <i>Fall, Spring</i>.</p>
<p>TPA 3601 CAH-THEA 3(3,0) Stage Management: PR: "C" (2.0) or better in TPA 2600. Responsibilities of the stage manager prior to, during, and after performance as related to Departmental productions as well as professional union requirements. <i>Fall</i>.</p>	<p>TPA 5062C CAH-THEA 3(2,2) Scene Design Studio: PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre. <i>Spring</i>.</p>	<p>TPP 2185 CAH-THEA 3(3,0) Acting for Non-majors: Introduction to the fundamentals of acting. <i>Fall, Spring</i>.</p>
<p>TPA 4041C CAH-THEA 3(2,2) Costume Design for Theatre II: PR: "C" (2.0) or better in TPA 3040C. A continuation of TPA 3040C. <i>Spring</i>.</p>	<p>TPA 5081 CAH-THEA 3(3,0) Design Concepts for Youth Theatre: PR: Admission to MFA graduate program or C.I. A study of design elements (lighting, costume, set) as they apply to youth theatre. <i>Odd Spring</i>.</p>	<p>TPP 2190L CAH-THEA 1(0,VAR) Theatre Participation-Performance I: PR: Theatre major or minor or department consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. <i>Fall, Spring</i>. M&S fee: \$15.00</p>
<p>TPA 4061C CAH-THEA 3(2,2) Scenic Design for Theatre II: PR: "C" (2.0) or better in TPA 3060C. Project scene design work with an emphasis on design visualization, communication and professional standards and practices. <i>Spring</i>.</p>	<p>TPA 5085C CAH-THEA 2(2,2) Design Seminar for Theatre: PR: Admission into Theatre MFA Design Track. Scenic, costume, lighting and sound design for theatre. <i>Occasional</i>.</p>	<p>TPP 2260 CAH-FILM 3(3,0) Acting for Film: PR: Film Majors. An introduction to acting for the camera. <i>Occasional</i>.</p>
<p>TPA 4224C CAH-THEA 3(2,2) Lighting Design for Theatre II: PR: "C" (2.0) or better in TPA 3221C. Project lighting design work with an emphasis on visualization of design concepts, professional graphics, and paperwork standards and practices. <i>Occasional</i>.</p>	<p>TPA 5095 CAH-THEA 1(1,0) Rendering for Theatre I: PR: Admission to Theatre MFA Design Track. Traditional visual communication skills necessary for scenic, costume, and lighting design. <i>Occasional</i>.</p>	<p>TPP 2700C CAH-THEA 3(2,2) Stage Speech/Voice: PR: BA Theatre major or minor and C (2.0) or better in THE 2000 or THE 2020. Practical stage voice as it applies to performance. Credit cannot be applied towards BFA acting and musical theatre majors. <i>Fall</i>.</p>
<p>TPA 4250C CAH-THEA 2(2,2) CADD for Theatre: PR: "C" (2.0) or better in TPA 2211 and TPA 2211L. Computer-aided drafting and design and its application for Theatre. <i>Fall</i>. M&S fee: \$23.00</p>	<p>TPA 5175 CAH-THEA 1(1,0) Rendering for Theatre II: PR: TPA 5095. Software and technology available for visual communication and documentation. <i>Occasional</i>.</p>	<p>TPP 2710C CAH-THEA 2(2,1) Voice Production I: PR: BFA acting major. Lessac, Skinner, phonetics, and the vocal apparatus. <i>Fall</i>.</p>

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<p>TPP 3103 CAH-THEA 3(3,0) Intermediate Acting: PR: B.A. Theatre major or minor and C (2.0) or better in TPP 2101. Practice and execution of scene work, monologue work, and exercises. <i>Occasional.</i></p>	<p>TPP 3730C CAH-THEA 2(2,1) Voice Production IV: PR: Grade of C (2.0) or better required in TPP 3712C. Analysis of dialects and regionalisms, reinforcing the study of phonetics, placement, and vocal apparatus. <i>Fall.</i></p>	<p>TPP 4271C CAH-THEA 2(2,2) Music Theatre Voice VI: PR: "C" (2.0) or better in TPP 4270C. Continuation of TPP 4270C and its application to music theatre performance. Individualized instruction. <i>Fall.</i></p>
<p>TPP 3172C CAH-THEA 3(2,2) Acting III - Building the Character: PR: Grade of C (2.0) or better required in TPP 2170C. Reinforcement of acting techniques begun in Acting II, with emphasis on characterization and character development. <i>Spring.</i></p>	<p>TPP 3952L CAH-THEA 3(0,VAR) Summer Studio Performance: PR: Audition/Interview or departmental consent. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. <i>Occasional.</i> M&S fee: \$20.00</p>	<p>TPP 4311C CAH-THEA 3(2,2) Advanced Directing for Theatre: PR: 'A' grade in TPP 3310C. Practical experience directing class scenes and projects. <i>Spring.</i></p>
<p>TPP 3197L CAH-THEA 3(0,VAR) Summer Theatre/Performance: PR: Audition/Interview or departmental consent. Production assignments and responsibilities during the rehearsals/performance of play scripts produced on the UCF mainstage. May be used in the degree program a maximum of 8 times. <i>Occasional.</i> M&S fee: \$20.00</p>	<p>TPP 4140C CAH-THEA 3(2,2) Acting IV - Creating the Role: PR: "C" (2.0) or better in TPP 3172C. Continued exploration and application of acting techniques through scene study. <i>Fall.</i></p>	<p>TPP 4531C CAH-THEA 2(2,1) Period Movement: PR: Grade of C (2.0) or better required in TPP 3172C. Continuation of Movement/Dance work. Emphasis given to period styles. <i>Fall.</i></p>
<p>TPP 3250 CAH-THEA 3(3,0) Musical Theatre Acting I: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 2110C. Practical acting techniques with solo musical theatre repertoire. <i>Fall.</i></p>	<p>TPP 4142C CAH-THEA 3(2,2) Acting V - Verse: PR: Grade of C (2.0) or better required in TPP 4140C. Verse drama with particular emphasis placed on scansion and verse in the plays of William Shakespeare. <i>Spring.</i></p>	<p>TPP 4746C CAH-THEA 2(2,2) Musical Theatre Voice VII: PR: BFA Musical theatre major and C (2.0) in TPP 4271C. Preparing musical theatre students for professional auditions. <i>Occasional.</i></p>
<p>TPP 3252 CAH-THEA 3(3,0) Musical Theatre Acting II: PR: B.F.A. Musical Theatre major, and C (2.0) or better in TPP 3250. Practical acting technique as it applies to musical theatre scene study. <i>Spring.</i></p>	<p>TPP 4143C CAH-THEA 3(2,2) Acting Styles: PR: "C" (2.0) or better in TPP 3103 or TPP 4140C. An advanced and comprehensive view of acting styles. <i>Occasional.</i></p>	<p>TPP 4923C CAH-THEA 2(2,2) Musical Theatre Voice IV: PR: "C" (2.0) or better in TPP 4259C. Continuation of diagnosis and development of the singing voice using patter song, in-context and out-of-context presentation, stylization utilizing musical theatre repertoire. Individualized instruction. <i>Fall.</i></p>
<p>TPP 3257C CAH-THEA 2(2,2) Musical Theatre Voice I: PR: B.F.A. Musical Theatre major, and C (2.0) or better in THE 2000 or THE 2020. Craft of singing including anatomy, physiology, and diction utilizing musical theatre repertoire. <i>Spring.</i></p>	<p>TPP 4193L CAH-THEA 1(0,VAR) Theatre Participation-Performance II: PR: Theatre major or minor and "C" (2.0) or better in TPP 2190L. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. <i>Fall, Spring.</i> M&S fee: \$15.00</p>	<p>TPP 4940L CAH-THEA 6(0,VAR) Theatre Internship: PR: Restricted to B.F.A. Theatre majors, and Junior Standing and subject to Departmental approval. Off-campus internship programs in professional theatre. Required of all B.F.A. theatre majors. <i>Fall, Spring.</i></p>
<p>TPP 3258C CAH-THEA 2(2,2) Musical Theatre Voice II: PR: B.F.A. Musical Theatre major, and C (2.0) or better in TPP 3257C. Artistry of singing including function of music and lyrics, and problems in song interpretation utilizing musical theatre repertoire. <i>Fall.</i></p>	<p>TPP 4221 CAH-THEA 3(3,0) Auditioning: PR: "C" (2.0) or better in TPP 3103 or TPP 4140C. Selecting monologues, auditioning techniques and cold readings. <i>Occasional.</i></p>	<p>TPP 5125C CAH-THEA 2(2,2) Improvisation Studio: PR: 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. <i>Odd Fall.</i></p>
<p>TPP 3264C CAH-THEA 3(3,2) Acting on Camera: PR: Theatre major; C (2.0) in TPP 2101, TPP 3103, and THE 2020. Preparing the actor for professional work in the TV/Film industry. <i>Occasional.</i></p>	<p>TPP 4223C CAH-THEA 3(2,2) Theatre Careers for Performance: PR: B.F.A. Acting and Musical Theatre major, Junior standing. Techniques needed to secure employment in performance or related fields. <i>Spring.</i></p>	<p>TPP 5156C CAH-THEA 3(2,2) Acting Studio I: PR: Admission to Theatre MFA Acting or Musical Theatre Track. An advanced scene study course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays. <i>Fall.</i></p>
<p>TPP 3310C CAH-THEA 3(2,2) Directing for Theatre I: PR: Theatre majors, Junior Standing, and C (2.0) or better required in THE 3312. Principles and techniques of play direction to include script selection, directorial analysis, casting, composition/picturization, blocking, tempo, and rehearsal planning. <i>Fall, Spring.</i></p>	<p>TPP 4243C CAH-THEA 2(2,2) Circus Arts: PR: Theatre major or minor; "C" (2.0) or better in TPP 2101 or TPP 2110C and THE 2000 or THE 2020. Circus history and introduction to a wide range of circus skills. <i>Occasional.</i></p>	<p>TPP 5157C CAH-THEA 3(2,2) Acting Studio II: PR: TPP 5156C. Advanced scene study course applying acting methodologies to the works of modern (1850-) European playwrights with emphasis on the works of Ibsen/Chekhov/Shaw. <i>Spring.</i></p>
<p>TPP 3510C CAH-THEA 2(2,1) Movement for the Actor I: PR: BFA Acting Major. Physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body. <i>Fall.</i></p>	<p>TPP 4244 CAH-THEA 3(3,0) The Art of Storytelling: PR: Theatre major or minor; "C" (2.0) or better in TPP 2101 or TPP 2110C and THE 2000 or THE 2020. Application of theatrical storytelling as an art form. <i>Occasional.</i></p>	<p>TPP 5246C CAH-THEA 2(2,2) Circus Arts: PR: Admission to Theatre graduate program or C.I. Circus skills and history. <i>Even Spring.</i></p>
<p>TPP 3512C CAH-THEA 2(2,1) Stage Combat: PR: Grade of C (2.0) or better required in TPP 4531C. Stage combat with emphasis on hand-to-hand combat. <i>Spring.</i></p>	<p>TPP 4259C CAH-THEA 2(2,2) Musical Theatre Voice III: PR: "C" (2.0) or better in TPP 3258C. Diagnosis and remedy of unique vocal challenges - utilizing musical theatre repertoire. Individualized instruction. <i>Spring.</i></p>	<p>TPP 5248C CAH-THEA 2(2,2) Storytelling as a Theatrical Art Form: PR: Admission to Theatre graduate program or C.I. Application of storytelling as an art form. <i>Spring.</i></p>
<p>TPP 3513C CAH-THEA 2(2,1) Movement for the Actor II: PR: C (2.0) or better in TPP 3510C. Reinforcement of the techniques of TPP 3510C. <i>Fall.</i></p>	<p>TPP 4265C CAH-THEA 3(3,2) Acting VI - Acting for TV/Film: PR: "C" (2.0) or better in TPP 4142C. Application of previous acting training to the TV/Film medium. <i>Fall.</i></p>	<p>TPP 5273 CAH-THEA 2(2,0) Musical Theatre Acting I: PR: 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. <i>Occasional.</i></p>
<p>TPP 3711C CAH-THEA 2(2,1) Voice Production II: PR: "C" (2.0) or better in TPP 2710C. Reinforcing stage voice awareness introduced in TPP 2710C, focusing on a physical approach to acting texts. <i>Spring.</i></p>	<p>TPP 4268C CAH-THEA 3(3,2) Acting VII Advanced Acting For TV/Film: PR: "C" (2.0) or better in TPP 4265C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project. <i>Spring.</i></p>	<p>TPP 5289C CAH-THEA 2(2,2) Acting Methodologies: PR: Admission to Theatre graduate program or C.I. Approaches to acting. <i>Even Fall.</i></p>
<p>TPP 3712C CAH-THEA 2(2,1) Voice Production III: PR: "C" (2.0) or better in TPP 3711C. Emphasis on study of Shakespearean and heightened language. <i>Fall.</i></p>	<p>TPP 4270C CAH-THEA 2(2,2) Musical Theatre Voice V: PR: "C" (2.0) or better in TPP 4923C. Advanced diagnosis and development of the singing voice and its application to musical theatre performance. Individualized instruction. <i>Spring.</i></p>	<p>TPP 5386 CAH-THEA 3(3,0) Directing for Young Audiences: PR: THE 5910 and Dramatic Literature for Children. Study of the principles, procedures, and practices of stage direction as it applies to theatre for young audiences. <i>Odd Spring.</i></p>

<p>TPP 5515 CAH-THEA 2(2,0) Movement Studio I: PR: 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. <i>Fall.</i></p>	<p>TSL 5345 ED-TLP 3(3,0) Methods of ESOL Teaching: This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL. <i>Fall, Spring.</i></p>	<p>WOH 2022 CAH-HIST 3(3,0) World Civilization II: Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization. <i>Fall, Spring.</i></p>
<p>TPP 5516C CAH-THEA 2(2,1) Movement Studio II: PR: 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. <i>Spring.</i></p>	<p>TSL 5373 ED-TLP 3(3,0) Teaching Language Minority Students in K-12 Classrooms: PR: 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. <i>Fall, Spring.</i></p>	<p>WOH 2022H CAH-HIST 3(3,0) World Civilization II - Honors: PR: Permission of Honors. Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization. Honors content. <i>Occasional.</i></p>
<p>TPP 5554C CAH-THEA 2(2,4) Musical Theatre Dance I: PR: MFA Musical Theatre Majors. Advanced dance study with particular emphasis on the development of principles of alignment, coordination, isolation, and sequencing. <i>Fall.</i></p>	<p>TSL 5376 CAH-LANG 3(3,0) Reading and writing in a second language: PR: Graduate standing or C.I. Theoretical and pedagogical approaches to ESOL reading and writing. <i>Occasional.</i></p>	<p>WST 3015 CAH-ENG 3(3,0) Introduction to Women's Studies: PR: ENC 1102 or C.I. Interdisciplinary course introducing students to key issues and problems regarding women and gender relations in past and present societies. <i>Fall, Spring.</i></p>
<p>TPP 5555C CAH-THEA 2(2,4) Musical Theatre Dance II: PR: TPP 5554C. Advanced dance study with particular emphasis on the development and expression of characterization in dance. <i>Spring.</i></p>	<p>TSL 5525 ED-TLP 3(3,0) ESOL Cultural Diversity: This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs. <i>Occasional.</i></p>	<p>WST 3015H CAH-WOM 3(3,0) Honors Introduction to Women's Studies: PR: ENC 1102 and Consent of Honors. Focus on women and gender in a transnational context. With Honors content. <i>Even Spring.</i></p>
<p>TPP 5715C CAH-THEA 2(2,1) Stage Voice I: PR: Admission to MFA performance program. An introduction/review class examining the fundamentals of speaking on stage: the correct production of sound, breathing, relaxation of physical tension, and articulation. <i>Fall.</i></p>	<p>TSL 5940 CAH-LANG 3(3,0) Issues in TEFL: PR: 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. <i>Spring.</i></p>	<p>WST 3460 CAH-WOM 3(3,0) Womanist Studies: PR: ENC 1102 or C.I. Interdisciplinary study of issues, perspectives, and scholarship by and about women of color. <i>Occasional.</i></p>
<p>TPP 5716C CAH-THEA 2(2,1) Stage Voice II: PR: Admission to the MFA Performance Program and TPP 5715C or C.I. Continuation of Graduate Voice Production I, studying Skinner's narrow transcription with consonants, review of all Linklater work, and introduction to the work of Arthur Lessac. <i>Spring.</i></p>	<p>TTE 4004 ECS-CEE 4(4,0) Transportation Engineering: PR: SUR 2101C, EGN 3613 and STA 3032. Investigation of highway and transportation systems. Systems approach to planning, design, operation and administration of transportation networks. <i>Fall, Spring.</i></p>	<p>WST 3460H CAH-WOM 3(3,0) Honors Womanist Studies: PR: ENC 1102 and consent of Honors. Disciplines producing scholarship promoting a feminist of color perspective. With Honors content. <i>Occasional.</i></p>
<p>TPP 5754 CAH-THEA 2(2,0) Musical Theatre Voice I: PR: Admission to MFA Musical Theatre Program. 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. <i>Fall.</i></p>	<p>TTE 4601C ECS-CEE 3(2,2) Urban Systems Design: PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies. <i>Spring.</i> M&S fee: \$15.00</p>	<p>WST 3500 CAH-WOM 3(3,0) Gender Issues and Community Activism: PR: WST 3015 or C.I. Feminist perspectives applied to current community issues. Interdisciplinary analysis through service learning and field research. Issues will vary. May be repeated for credit. <i>Occasional.</i></p>
<p>TPP 5935C CAH-THEA 2(2,2) Contemporary Practices in Youth Theatre: PR: 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. <i>Odd Spring.</i></p>	<p>TTE 5204 ECS-CEE 3(3,0) Traffic Engineering: PR: TTE 4004. Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings. <i>Occasional.</i></p>	<p>WST 3561 CAH-WOM 3(3,0) Third Wave Feminisms: PR: WST 3015. Third wave feminist theories and practices with an activist focus. <i>Even Spring.</i></p>
<p>TSL 4080 ED-TLP 3(3,0) Theory and Practice of Teaching ESOL Students in Schools: PR: Junior standing or C.I. Focuses on methods of teaching English to Speakers of Other Languages (ESOL), ESOL curriculum and materials, cross-cultural understanding, applied linguistics in second language teaching, and test and evaluation of ESOL. <i>Fall, Spring.</i></p>	<p>TTE 5700 ECS-CEE 3(3,0) Railroad Engineering: PR: TTE 4004 and C.I. The major technical factors in location, construction, maintenance, and operation of railroad transportation systems. <i>Occasional.</i></p>	<p>WST 4002 CAH-WOM 1(1,0) Researching Women and Gender: PR: WST 3015 or C.I. Introduces students to scholars and research in a variety of areas pertaining to the study of women and gender relations. <i>Occasional.</i></p>
<p>TSL 4141 CAH-LANG 3(3,0) Issues in Second Language Acquisition: PR: TSL 4080. English phonology, morphology, syntax, and semantics, for future teachers. <i>Fall, Spring.</i></p>	<p>TTE 5805 ECS-CEE 3(3,0) Geometric Design of Transportation Systems: PR: TTE 4004 or C.I. Study of highway geometric design in the engineering of transportation systems. <i>Occasional.</i></p>	<p>WST 5347 CAH-WOM 3(3,0) Research Seminar in Gender Studies: PR: Graduate status or senior standing, or C.I. Research seminar exploring relationships among feminist theorizing, research, and social change, the development of gender studies programs and their relationships to other academic disciplines. <i>Occasional.</i></p>
<p>TSL 5143 CAH-LANG 3(3,0) ESOL Strategies: PR: 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. <i>Occasional.</i></p>	<p>TTE 5835 ECS-CEE 3(3,0) Pavement Design: PR: CEG 011C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy. <i>Occasional.</i></p>	<p>WST 5601 CAH-WOM 3(3,0) Theories in Gender Studies: PR: 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. <i>Even Fall.</i></p>
<p>TSL 5245 CAH-LANG 3(3,0) Computers and Technology for ESOL: PR: 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. <i>Occasional.</i></p>	<p>VIC 3001 COS-COMM 3(3,0) Visual Communication: A study of the visual system of man and the influences of the visual media on modern society. <i>Occasional.</i></p>	<p>ZOO 3701C BCBS-M&M 3(1,4) Human Gross Anatomy & Dissection Techniques: PR: ZOO 3733C. Dissection techniques of the human body to teach students the skills required for the preparation of three dimensional materials(specimens). The primary student population should be junior/senior pre health professional applicants preparing for the basic medical sciences of professional schools. <i>Spring.</i> M&S fee: \$15.00</p>
	<p>WOH 2012 CAH-HIST 3(3,0) World Civilization I: A topical approach to the study of the rise and decline of world civilizations from the first attempts to the great civilizations of medieval times. <i>Fall, Spring.</i></p>	
	<p>WOH 2012H CAH-HIST 3(3,0) World Civilization I - Honors: PR: Permission of Honors. The rise and decline of world civilizations from antiquity to the great civilizations of medieval times. Honors content. <i>Occasional.</i></p>	

UCF Courses and Descriptions

- ZOO 3713C COS-BIOL 5(3,6)
Comparative Vertebrate Anatomy: PR: BSC 2010C and BSC 2011C, or C.I. The vertebrate animals, relationships of organs and systems, and their phylogenetic significance. *Fall.* M&S fee: \$35.00
- ZOO 3733C BCBS-M&M 4(3,3)
Human Anatomy: PR: BSC 2010C or equivalent. Structure of the human body. *Fall, Spring.* M&S fee: \$15.00
- ZOO 3733H BCBS-M&M 4(3,3)
Honors Human Anatomy: PR: BSC 2010C or equivalent and Consent of Honors. Basic and functional anatomy in clinically oriented way to study systems within the human body. The lab component of this honors course provides enrichment and an opportunity to view cadaver specimens. With Honors Content. *Spring.*
- ZOO 3736C BCBS-M&M 4(3,2)
Exercise Physiology Anatomy: PR: BSC 2010C, CI. Gross anatomy for exercise physiology majors. *Fall, Spring.* M&S fee: \$15.00
- ZOO 3744 BCBS-M&M 3(3,0)
Neurobiology: PR: BSC 2010C. Biological principles governing the physiology of the nervous system including electrical properties, chemical signaling, cellular composition, development, injury and regeneration. *Fall, Spring.*
- ZOO 4205C COS-BIOL 4(3,3)
Biology and Ecology of Metazoan Invertebrates: PR: BSC 2010C, BSC 2011C, PCB 3044 or C.I. Anatomy, ecology, taxonomy, behavior, evolution, and parasitological relations of the radiates, bilateria, acoelous, pseudocoelous, schizocoelous, and enterocoelous invertebrates. *Occasional.* M&S fee: \$15.00
- ZOO 4310C COS-BIOL 4(2,6)
Vertebrate Evolution & Ecology: PR: BSC 2010C, BSC 2011C, PCB 3044, PCB 3063 or C.I. Vertebrate evolution and ecology, based on the paleontological and ecological literature. The laboratory places heavy emphasis on classification/identification and field work. *Occasional.* M&S fee: \$45.00
- ZOO 4513 COS-BIOL 3(3,0)
Animal Behavior: PR: PCB 3044. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations. *Odd Fall.*
- ZOO 4603C COS-BIOL 5(3,4)
Embryology/Development: PR: PCB 3063 and PCB 3023 or PCB 3522 or C.I. Concepts of developmental processes. Emphasis on mechanisms underlying vertebrate development. *Spring.* M&S fee: \$25.00
- ZOO 4605 BCBS-M&M 3(3,0)
Human Clinical Embryology and Congenital Malformation: PR: ZOO 3733C. Advanced functional human clinical embryology with focus on congenital abnormalities. *Occasional.*
- ZOO 4704C BCBS-M&M 4(3,1)
Clinical Neuroanatomy and Neuroscience: PR: ZOO 3733C with a B (3.0) or better. Basic and applied neurosciences with attention to normal function and pathologic states of the nervous system relevant to practice of general medicine and/or neuroscience. *Fall.*
- ZOO 4753C BCBS-M&M 4(3,3)
Vertebrate Histology: PR: ZOO 3733C. 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.* M&S fee: \$15.00
- ZOO 5456C COS-BIOL 4(2,6)
Ichthyology: PR: ZOO 4310C, and graduate status or senior standing or C.I. Introduction to the biology of the fishes, their classification, evolution, and life histories. *Occasional.* M&S fee: \$25.00
- ZOO 5463C COS-BIOL 4(2,6)
Herpetology: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories. *Occasional.* M&S fee: \$15.00
- ZOO 5475C COS-BIOL 4(2,6)
Ornithology: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of birds, their classification, evolution, and life histories. *Occasional.* M&S fee: \$15.00
- ZOO 5486C COS-BIOL 4(2,6)
Mammalogy: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of mammals, their classification, evolution, and life histories. *Occasional.* M&S fee: \$15.00
- ZOO 5520 COS-BIOL 3(3,0)
Behavioral Ecology: PR: graduate status or senior standing, and C.I. Introduction to the field of Behavioral Ecology, which studies evolution of animal behavior in the wild. *Occasional.*
- ZOO 5745C BCBS-M&M 4(3,3)
Essentials of Neuroanatomy: PR: 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. *Occasional.* M&S fee: \$15.00
- ZOO 5748C BCBS-M&M 5(3,2)
Clinical Neuroanatomy: PR: 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.*
- ZOO 5815 COS-BIOL 4(4,0)
Zoogeography: PR: 8 hours of zoology, and graduate status or senior standing or C.I. Principles and concepts concerning regional patterns of animal distributions of the world, both past and present. *Occasional.* M&S fee: \$15.00
- ZOO 5881C COS-BIOL 4(3,4)
Fisheries Management: PR: ZOO 4310C, graduate status or senior standing, or C.I. Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates. *Occasional.* M&S fee: \$20.00

- ABBAS, HADI**, Assistant Professor of Art (1995), B.F.A., M.F.A. (Wichita State University)
- ABDALLAH, NAZIH**, Lecturer School of Electrical Engineering and Computer Science (2005), Ph.D. (University of Paris)
- ABDEL-ATY, MOHAMED**, Professor of Engineering (1995), B.S.C.E., M.S.C.E., Ph.D. (University of California at Davis), P.E. (Florida)
- ABEL, EILEEN M.**, Associate Professor of Social Work (1978), A.B., M.S.W., Ph.D., (Case Western Reserve University)
- ABRAHAM, CHARLIE**, Associate Professor of Art (1996), B.F.A., M.F.A. (University of Mississippi)
- ACCARDI, MARY**, Instructor of Education (2006)
- ADAMS, CAROLE**, Associate Professor of History (1993), B.A., M.A., Ph.D. (Harvard University)
- ADAMS, KENNETH**, Professor of Public Affairs (2003), Ph.D. (State University of New York at Albany)
- AHERN, NANCY**, Visiting Instructor, School of Nursing (2004), R.N., M.S.N. (University of Delaware)
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- AKITA, KIMIKO**, Assistant Professor of Communication (2005), B.A., M.A., Ph.D. (Ohio University)
- AL-DEEK, HAITHAM**, Professor of Engineering (1992), B.C.E., M.S., Ph.D. (University of California at Berkeley), P.E. (Florida)
- ALBERS-BIDDLE, JUNIE**, Instructor of Education (2001), B.A., M.A. (University of Central Florida)
- ALDERMAN, BARBARA**, Assistant Librarian (2002), B.A., M.S. (Florida State University)
- ALI, TARIG**, Assistant Professor of Engineering Technology (2006), B.S., M.S., Ph.D. (Ohio State University)
- ALLEN, FRANK R.**, Associate Director for Administrative Services (1998), B.A., B.S., M.B.A., M.L.S. (University of Tennessee)
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- ALLEN, KAY WILLIAMSON**, Associate Professor of Education (1990), B.S., M.Ed., Ph.D. (University of South Carolina)
- ALLGOOD, JANE**, Graduate Coordinator and Assistant Professor of Social Work (2002), B.A., M.S.W., Ph.D. (Florida State University)
- ALMEIDA, JOHN A.**, Associate Professor of Music (1997), B.M., M.A. (Appalachian State University)
- ALRUTZ, MEGAN**, Assistant Professor of Theatre (2004), B.F.A., Ph.D. (Arizona State University)
- ALVAREZ, DIANE E.**, Assistant Professor of Education (2003), B.A., M.A., M.A., Ph.D. (University of California)
- AMBROSE, MAUREEN L.**, Professor of Management (1999), B.A., A.M., Ph.D. (University of Illinois at Urbana-Champaign)
- AN, LINAN**, Assistant Professor of Engineering (2001), Ph.D. (Lehigh University)
- ANDREASEN, JANET**, Visiting Assistant Professor of Education (2005), B.S., M.A., Ed.D. (University of Central Florida)
- ANDREWS, DIANE**, Assistant Professor (2007), R.N., Ph.D. (University of Central Florida)
- ANGELOPOULOS, THEODORE**, Professor of Health Sciences (1998), B.S., M.S., Ph.D. (University of Pittsburgh)
- ANGLEY, PATRICIA**, Instructor of English (1998), B.A., M.A., Ph.D. (University of Hawaii)
- ANTHONY, JOBY M.**, Associate Professor of Mathematics (1970), B.S., M.A.M., Ph.D. (North Carolina State University)
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- APPLEN, J.D.**, Associate Professor of English (1997), B.S., M.F.A., Ph.D. (University of Arizona)
- ARK, PAMELA**, Assistant Professor (2004), R.N., Ph.D. (University of Tennessee, Memphis)
- ARTHUR, MICHAEL A.**, Head, Acquisitions & Collections and Assistant Librarian (2006), B.S., M.L.S., M.P.A. (Old Dominion University)
- ASHLEY, ROBERT A.**, Assistant Professor of Hospitality Management (1984), B.S., M.S. (Florida International University, C.E.C., C.C.E.)
- ATKINSON, TOM**, Visiting Assistant Professor of Education (2006), B.M.E., M.S.E., Ph.D. (Louisiana State University)
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- BAGLEY, GEORGE M.**, Associate Director and Associate Professor of Communication (1994), B.A., M.A. (University of Utah)
- BAI, HAIYAN**, Assistant Professor of Education (2006), B.A., M.A., Ph.D. (University of Cincinnati)
- BAILEY, CHARLES D.**, Professor of Accounting (1991), B.B.A., M.B.A., M.P.A., Ph.D. (Georgia State University)
- BAKER, BARRY B.**, Director, University Libraries (1997), B.A., M.L.S. (Louisiana State University)
- BAKER, JOSIAH R.**, Instructor of Economics (2001), B.A., M.A., M.A.A.E. (University of Central Florida)
- BALADO, CARL**, Associate Professor of Education (1987), B.A., M.S., M.Ed., Ed.D. (Florida Atlantic University)
- BALLANTYNE, JOHN**, Associate Professor of Chemistry/ Forensic Science (1998), B.S., M.S., Ph.D. (State University of New York at Stony Brook)
- BALTUNIS, CATHERINE**, Visiting Instructor of Communication (2003), B.A., M.A. (University of Central Florida)
- BAMBERGER, ALICE**, Director (2006)
- BARBER, SARAH**, Assistant Professor of Anthropology (2007), Ph.D. (University of Colorado)
- BARFIELD II, RUFUS**, Associate Professor of Communication (1998), B.A., M.A., Ph.D. (Howard University)
- BARNES, BETH**, Vice President and Chief of Staff, Office of the President, and Associate Professor of English (1968), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)
- BARNES, KERRI**, Instructor of Communication Sciences and Disorders (2006), B.A., M.A. (University of Central Florida)
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- BARRETT, AMY**, Externship Coordinator and Instructor of Communication Sciences and Disorders (2004), B.S., M.A. (University of Central Florida)
- BARRIENTOS, CHRISTIAN**, Visiting Instructor of Mathematics (2005)
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- BARTKEVICIUS, JOCELYN**, Associate Professor of English (1994), B.A., M.A., M.F.A., Ph.D. (University of Iowa)
- BASCO, BUENAVENTURA B.**, Associate Librarian (1998), B.S.I.E., M.B.A., M.A.L.I.S. (University of South Florida)
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(2003), (Northwestern University)
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(1987), B.S., Ph.D. (University of Arizona)
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(2003), Ph.D. (University of Georgia)
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(2004), Ph.D. (University of Nottingham)
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- WHEELER, RAYMOND**, Professor, Biology
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(2005), B.S.N., M.S.N. (University of Florida)
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(1984), B.A., M.A., Ed.D. (University of Central Florida)
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- BERSIA, JOHN**, Global Perspectives
(2001), M.A., M.S. (London School of Economics)
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CHANDIA, NATALY, Director, International Services Center
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(2001), B.A. (Michigan State University)

CHAVIS, GORDON D. JR., Assistant Vice President for Undergraduate Admissions, Student Financial Assistance, and Student Outreach
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MINANA, KIM A., Assistant Vice President for Major Gifts and Director of Corporate and Foundation Relations
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MORRISON-SHETLAR, ALISON, Interim Dean of Undergraduate Studies, and Professor of Biology
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NOVAK, JEFFREY, Associate Director of Housing and Residence Life and LINK First Year Experience
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ORO, GLENNA, Constituent Relations
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PET-ARMACOST, JULIA, Assistant Vice President, Special Academic Initiatives
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PIERCE JR., CHARLES F., Visiting Assistant Professor (Exec), (2002)
POISEL, MARK ALLEN, Associate Vice President, Academic Development and Retention
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PRIEST, DeLAINE, Assistant Vice President, Student Success Center
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SCIARRINO, JOSEPH, Director, Activity and Service Fee Business Office
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SHIVER, LAUREN A., Assistant Vice President for Advancement Services
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SNOW, ROBERT, Director, Sophomore Center
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STEEL, CATHERINE, Director, Counseling Center
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STINARD, CHARLENE, Director, Transfer & Transition Services
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TRIBBLE, KEITH, Director, Athletics
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- TRUMAN, BARBARA**, Director, Course Development and Web Services
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UHLIR JR., JAMES E., Director, Environmental Health and Safety
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ULLOM, CRAIG E., Associate Vice President for Campus Life
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VAIDYANATHAN, PALLAVOOR N., Assistant Vice President for Research
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WAGNER, PATRICK, Assistant Vice President and Director, Continuing Education
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WALLACE, DAVID, Director, Counseling Center
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WATSON, JIMMY L., Assistant Vice President for Campus Life and Director Off-Campus Student Services
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WEIDMAN, DIANA, Director of Eastern Region Student Services
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WILKENING, JAMES, Associate Director for Recreation and Wellness Center
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(2004), B.S., M.Ed., (Pennsylvania State University)
YOUNG, DENISE L., Associate Vice President, Planning and Evaluation
(1990), B.A., M.S.W., Ph.D. (University of Michigan)

HONORARY DEGREES AWARDED

December 1969	Kurt H. Debus, Doctor of Engineering Science William H. Dial, Doctor of Commercial Science	May 1990	Helen Harris Perlman, Doctor of Humane Letters Thaddeus Seymour, Doctor of Letters
June 1970	John W. Young, Doctor of Applied Sciences	May 1991	Roald Hoffman, Doctor of Science
March 1973	Louis C. Murray, Doctor of Public Service	May 1992	Robert Bryan, Doctor of Humane Letters
August 1974	Fred C. Clayton, Doctor of Professional Engineering	May 1993	Buell G. Duncan, Jr., Doctor of Commercial Science
August 1978	Richard F. Livingston, Doctor of Business Administration	May 1995	Norman R. Augustine, Doctor of Engineering Science
June 1979	Albert F. Hegenberger, Doctor of Engineering Science Lee R. Scherer, Doctor of Engineering Science	December 1995	Jesse Stone, Doctor of Humane Letters
December 1979	Joseph Daniel Duffey, Doctor of Humane Letters	April 1996	Nicolaas Bloembergen, Doctor of Science
June 1980	Thelma Vivian Jackson Dudley, Doctor of Humanities Howard Phillips, Doctor of Public Service	December 1996	Richard A. Nunis, Doctor of Public Service
December 1981	Gene Burns, Master of Letters	May 1997	Maxwell C. King, Doctor of Public Service Joe R. Lee, Doctor of Commercial Science
April 1982	Robert J. Whalen, Doctor of Engineering Science Andrew Duda, Jr., Doctor of Agricultural Service Ferdinand Duda, Doctor of Agricultural Service John Duda, Doctor of Agricultural Service	August 1998	Trevor Colbourn, Doctor of Humane Letters
July 1982	Mary Jo Davis, Doctor of Public Service William E. Davis, Doctor of Public Service	December 1998	Linda W. Chapin, Doctor of Public Service
December 1982	Joseph A. Boyd, Doctor of Engineering Science	December 1999	Archbishop Desmond Tutu, Doctor of Humane Letters President Oscar Arias, Doctor of Humane Letters
July 1983	J. W. Hubler, Doctor of Engineering Science Charles Wadsworth, Doctor of Public Service	December 1999	Reubin O'D. Askew, Doctor of Public Service
December 1984	Allan E. Gotieb, Doctor of Laws	May 2000	Lotfi Zadeh, Doctor of Science
May 1985	George J. Becker, Jr., Doctor of Public Service Jerry Collins, Doctor of Public Service D. Robert Graham, Doctor of Public Service Walter O. Lowrie, Doctor of Engineering Science William C. Schwartz, Doctor of Engineering Science	May 2001	Richard M. Karp, Doctor of Science Joseph F. Traub, Doctor of Science
March 1986	Isaac Bashevis Singer, Doctor of Letters	May 2002	LeRoy T. Walker Sr., Doctor of Public Service
October 1988	Elie Wiesel, Doctor of Letters	October 2002	James Bacchus, Doctor of Public Services
December 1988	Sven Caspersen, Doctor of Engineering Science John D. Holloway, Doctor of Public Service Wolfgang-Detlef Petri, Doctor of Commercial Science	October 2002	Richard M. DeVos, Sr., Doctor of Commercial Science
May 1989	Frank M. Hubbard, Doctor of Public Service David Albertson, Doctor of Humane Letters William S. Jenkins, Doctor of Humane Letters James C. Robinson, Doctor of Public Service Charles N. Millican, Doctor of Laws	December 2002	Nancy Burnett, Doctor of Commercial Science
		December 2004	Albert Burnett, Doctor of Commercial Science
		December 2004	Robert E. Kahn, Doctor of Science
		May 2005	G. Vince Amico, Doctor of Science
		March 2006	Lester Mandell, Doctor of Commercial Science
		December 2006	Harriet Elam-Thomas, Doctor of Public Service
		May 2007	Anibel Acevedo Vila, Doctor of Public Science
			Rita Bornstein, Doctor of Humane Letters
			Charles Hard Townes, Doctor of Science

UCF GLOSSARY

A.A.: associate in arts degree. A degree designed for transfer to an upper division college or university. A Florida A.A. degree satisfies General Education (GEP) at all Florida SUS Schools.

Accreditation: certification that the college/school or program has met established standards and is nationally recognized by appropriate accrediting agencies.

ACT: American College Testing program is used for undergraduate admission purposes.

Add/Drop: online procedure used to alter class schedules after registration. During this time, students can adjust their schedules through myUCF (<https://my.ucf.edu>) without penalty by adding or dropping courses. Students should check the appropriate term's *Web Enrollment Guide* for details.

AEP: Academic Exploration Program to assist undecided students.

A.S.: associate in science degree. A broad-based degree designed to prepare students to enter a wide variety of careers.

ASSA: Academic Services for Student Athletes.

Audit (course): to attend classes without receiving academic credit.

Audit (Degree): Computerized summary of progress toward completion of degree requirements to be used with academic advising and registration. Available from myUCF at <https://my.ucf.edu>. (See also "SASS Degree Audit")

BA: Business Administration. This abbreviation appears in the listing of courses and refers to the College of Business Administration (CBA). Also see Bachelors Degree.

Baccalaureate or Bachelors Degree: completion of all University and major graduation requirements as certified by the University (B.A. is the Bachelor of Arts degree and B.S. is the Bachelor of Science degree).

BCBS: Burnett College of Biomedical Sciences.

Breaking Catalog: loss of eligibility to follow graduation requirements in a specific catalog.

CAH: College of Arts and Humanities.

Catalog: resource for UCF academic policies and procedures, college/school and degree requirements, course descriptions and faculty listings. It is published annually and its contents are subject to change. Available online at <http://www.catalog.sdes.ucf.edu>

Catalog Year: the edition of the University catalog that governs course prerequisites, co-requisites and graduation requirements for a particular academic year.

CBA: College of Business Administration

CECS: College of Engineering and Computer Science

Certificate: special program of study supplemental to a major.

CI: consent of instructor.

Class Schedule Search: a component of the online myUCF system (at <https://my.ucf.edu>) that lists courses and class sections offered each academic term.

CLAST: College Level Academic Skills Test: the CLAST is a required statewide test which measures selected communication and mathematics skills.

CLAST Alternative: refers to another way of satisfying one or more subtests of the CLAST requirement other than taking the exam - through combination test

scores (SAT or ACT) and specific course grades.

COE: College of Education.

COHPA: College of Health and Public Affairs.

College: collection of related academic departments. There are eleven colleges at UCF: Arts and Humanities (CAH), Business Administration (CBA), Burnett College of Biomedical Sciences (BCBS), Education (COE), Engineering and Computer Science (CECS), Health and Public Affairs (COHPA), Medicine, Nursing (CON), Optics and Photonics (COP), The Burnett Honors College (TBHC), Rosen College of Hospitality Management (RHM), and Sciences (COS).

Common Course Numbering: the statewide course numbering system (SCNS) uses a course designation that consists of a 3-letter prefix and a 4-digit number and when necessary a one-letter laboratory (L) or lecture/laboratory (C) suffix.

Common Program Prerequisite: the State of Florida has identified Common Program Prerequisites for all University programs. These prerequisites must be completed by all students entering that field of study, must be accepted by all state universities and must be applied towards the degree.

CON: College of Nursing.

Contact hours: number of hours students meet in class.

Continuous Enrollment: enrollment not interrupted by non-attendance for either consecutive Fall and Spring terms, or consecutive Spring, Summer term, and Fall.

COS: College of Sciences.

CR: co-requisite is an additional course in which you must enroll during the same term as the primary course you desire to take.

Credit Hour or Semester Hour: every course taught is designated a total number of credit hours. The number of credit hours for a class reflects approximately the total hours a student spends per week in class. Most lecture courses are three credit hours and meet three hours each week. Students should expect to spend at least two hours of study time outside of class for every hour spent in class. One semester hour equals 1.5 quarter hour.

Diploma: official certificate displaying earned degree, major and baccalaureate honors.

Directory Information: information items that the Family Educational Rights and Privacy Act of 1974, As Amended (FERPA) authorizes the University to release without the student's prior consent, unless the student has filed a "Directory Disclosure/Release Authorization Form" with the Registrar's Office. Directory information at UCF includes the student's name, current mailing address, telephone number, date of birth, enrollment status, dates of attendance, major field of study, degree and awards received, participation in officially recognized activities and sports, and athletes' height and weight.

Disqualified: a student on academic probation is disqualified upon failure to achieve a minimum 2.0 UCF GPA during the subsequent term. A student who is disqualified may not enroll at the University for two terms following disqualification. Readmission after two terms is not automatic.

Distance and Distributed Learning: learning online through the UCF Virtual Campus, which provides opportunities for students to enroll in credit courses and select degree programs through a variety of inter-

active distributed technologies.

Double Major: awarded when the student concurrently satisfies requirements for two majors.

Drop: a student may drop a course during the official Add/Drop period and a dropped course will not appear on the student's permanent record. Students are not fee liable for dropped courses.

Elective: any course not required as part of the General Education Program or as part of your major/minor.

Email: primary official means of communication with students regarding University business and information.

Enrollment: the act of registering in classes. This may be done through myUCF at <https://my.ucf.edu>, kiosk and in limited circumstances at the colleges' advising offices.

Enrollment Certification: an official University document that provides a student's enrollment history including status, dates enrolled, and degrees awarded, available online at <https://my.ucf.edu> in Student Self Service.

Equipment Fee: A charge associated with some majors to cover the use and replacement of equipment.

Excluded: a student readmitted following disqualification who fails to achieve a minimum 2.0 GPA is excluded from the University. Students are not eligible for readmission after exclusion. See "Readmission" for details.

Fee Invoice: a printout of courses for which the student has registered that lists each specific course, its meeting time(s) and day(s). The amount of tuition and fees due for all courses registered and the payment deadline date also is indicated. Available online at <https://my.ucf.edu> in Student Self Service.

Freshman and Sophomore Courses: lower level courses with common course numbers ranging from 1000-2999 (e.g., ENC 1101, English Composition I). Generally, freshmen should enroll in 1000 and 2000 level courses.

FTIC: abbreviation for "First Time In College," referring to those students who have completed fewer than 12 semester hours and currently are in their first term as a UCF college student after high school.

Full-Time Course Load: for undergraduates, a minimum of 12 credits in the Fall and Spring and Summer terms.

FYAE: First Year Advising and Exploration.

GEP: General Education Program: Specific courses required for all UCF degree programs providing skills and knowledge in general subject areas essential to continued learning and success, not only in college but throughout the student's life.

Gordon Rule: requires students to complete four composition courses (12 semester hours) and two courses (six semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a grade of "C-" (1.75) or better.

GOT: the Grad On Track program is designed to assure a student's graduation in four years.

GPA: "Grade Point Average": the average number of grade points per semester hour attempted. GPA is computed by dividing the total number of grade points assigned by the total number of semester hours attempted, less hours resulting from NC, W, WP, and I grades.

Grade Forgiveness: refers to when a course taken at UCF is repeated, and for grade point average purposes, the grade earned in the first attempt is replaced by the grade earned in the second attempt at UCF (may be used only twice in the student's academic career).

Grade Point Deficiency: for readmission purposes only, this term is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

Health Form: documentation of immunity for measles and rubella, as well as consent for treatment at the University Health Center (must be completed and returned to Student Health Services prior to the first registration).

Hold: also called a "negative service indicator", this is a block on activity for transcripts, grades, diploma, or registration because of financial or other obligations to UCF.

Incomplete: grade assigned by the instructor when a student is unable to complete a course due to extenuating circumstances. Must be completed in 12 months or by graduation, whichever comes first.

Junior and Senior Courses: upper level courses with common course numbers ranging from 3000-4999 (e.g., ENG 3311, Advanced Expository Writing).

Kiosk: stand-alone PCs located in UCF public areas providing access to student records and general information.

Limited Access: certain academic programs designated as "limited access" only guarantee admission to a limited number of applicants.

Lower Level Courses: courses with a number of 1000-2999 (not less than 1000).

Major: group of related courses that constitute a focused program of study in a specific area of knowledge.

MASS: Multicultural Academic and Support Services

Material and Supply Fee: A charge associated with some courses to cover items consumed within the class.

Minor: a complement to a bachelor's degree program/major requiring at least 18 credit hours in a field.

myUCF: the UCF/student information portal online at <https://my.ucf.edu>. myUCF is a powerful, security-encrypted, PID (Personal Identification Number) and Password-access information system that will facilitate a variety of transactions in which students will engage at UCF. In myUCF, students may obtain a list of current holds, change the Password, e-mail address, telephone number, and permanent/mailling addresses; search for courses each term; register, drop and add courses each term; withdraw from courses following the close of Late Registration and Add/Drop, print the "SASS Degree Audit," obtain the registration appointment day and time for each term, print a "Fee Invoice," pay fees by credit card, gain access to financial aid and accounts receivable information; obtain the term final grades, and a list of current courses.

NID: Network Identification Number that students use to log in to WebCT, Pegasus e-mail and the UCF computer labs.

Overall GPA: cumulative GPA of UCF and transfer course work.

Password: a series of four to eight characters and numbers chosen by the student that is associated with the PID (Personal Identification Number). Each time you use the PID to enter myUCF, you also will enter your Password.

Pending Status: category assigned to students who desire to enter limited or restricted access programs. Typically, students are required to complete the GEP and all major pre-requisites prior to admission into the desired limited access program. (Department will change student's status upon acceptance into the program.)

PID: (Personal IDentification Number): personal eight-digit code required when entering myUCF, or the UCF Information Kiosks.

PR: prerequisite refers to a specific course that must be taken and passed prior to enrolling in the primary course the student desires to take.

Probation: action taken when a student's UCF overall GPA drops below 2.0.

Readmission: reapply to the Registrar's Office after an absence of two or more terms.

Registration: the act of enrolling in classes. This may be done through myUCF at <https://my.ucf.edu>, kiosk and in limited circumstances at the colleges' advising offices.

Repeat Surcharge: additional fee applied when a student enrolls in the same course three or more times.

Restricted Access: a major that has additional admission requirements (e.g. early application date, a separate application or specific GPA requirements). There is no limit to the number of students who can be enrolled. Students meeting the specified requirement(s) normally will be admitted.

Restricted Electives: a specified group of courses within a major from which students must make selections.

Retention: a term used to describe students' continued enrollment at the University until successful completion of their educational goals.

RHM: Rosen College of Hospitality Management

SARC: Student Academic Resource Center provides academic support programs, including supplemental instruction, tutoring, academic advising, and various other programs and services to students.

SASS Degree Audit: A Student Academic Support System is a computerized degree audit that lists courses completed toward major and degree requirements.

SAT: Scholastic Assessment Test is an assessment used for University admission purposes.

Satisfactory Academic Progress: a general eligibility requirement for financial assistance. (see 'Office of Student Financial Assistance' within the "Financial Information" section of this *Undergraduate Catalog*.)

Second Bachelors Degree: awarded when the student meets the requirements for both degrees and earns a minimum of 150 credit hours.

Section: refers to one of several offerings of the same course scheduled at different days of the week and hours of the day. For example: there may be 40 different sections of ENC 1101 offered within a term.

Sequence: a series of courses within the same subject area. Generally, the student takes these courses in numerical order (e.g., PHY 2053 then 2054). Students should consult the advisor before registering out of sequence.

SSYC: Sophomore & Second Year Center

STEP: State Tuition Exemption Program

Student Success Center: advising offices and other academic support services for first-year students located on the first two floors of Howard Phillips Hall.

SUS: State University System. All eleven Florida public universities are part of the SUS.

Term: the academic year at UCF is divided into segments called "terms" (also called "semesters"). Each lasts approximately 16 weeks. Some universities break the year into fourths and call them "quarters." UCF is on the semester system; however, we usually speak of "Fall Term," "Spring Term," or "Summer Sessions."

Term GPA: grade point average (GPA) on work attempted during any given term.

TBHC: The Burnett Honors College

Third Attempt Charge: See 'Repeat Surcharge.'

Track: one of two or more significant variations in a degree program or major. Approximately 50% of the courses in one track differ from the courses required in other tracks.

Transcript: official academic record mailed from the Registrar's Office.

TSD: Time Shortened Degree or Accelerated Education Opportunities.

TSR: Transfer Summary Report is a listing of all coursework transferring to the University for credit. A preliminary TSR is generated at the time of acceptance. A final TSR is processed after all final transcripts have been received by the Admissions Office.

Transient Student: a UCF student enrolled in courses at another regionally-accredited institution.

UCF Area Campus System: UCF Cocoa, UCF Daytona Beach, UCF Downtown, UCF Heathrow, UCF Leesburg, UCF Ocala, UCF Osceola, UCF Palm Bay, UCF Sanford/Lake Mary, UCF South Lake, UCF South Orlando, and UCF West Orlando.

UCF GPA: grade point average (GPA) on all work attempted while in attendance at UCF.

Upper Level Courses: courses with a course number of 3000-4999.

Web Enrollment Guide: Multiple-Term editions available online at <http://registrar.ucf.edu>. Provides the "Academic Calendar," guides to registering online, Class Schedule Search and the Fee Invoice, and contains the policies that govern course registration. Each term's class listings are available only on-line through myUCF Class Schedule Search at <https://my.ucf.edu>.

Withdrawal, Withdraw from a Course: to formally request an official withdrawal from one or more courses during the first half of the term or session through myUCF (<https://my.ucf.edu>) or at the Registrar's Office.

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